THOMSON CONSUMER ELECTRONICS

Service

NORDMENDE THOMSON TECHNOLOGY · SABA · TELEFUNKEN · THOMSON

FERNSEHEN
TELEVISION
TÉLÉVISION

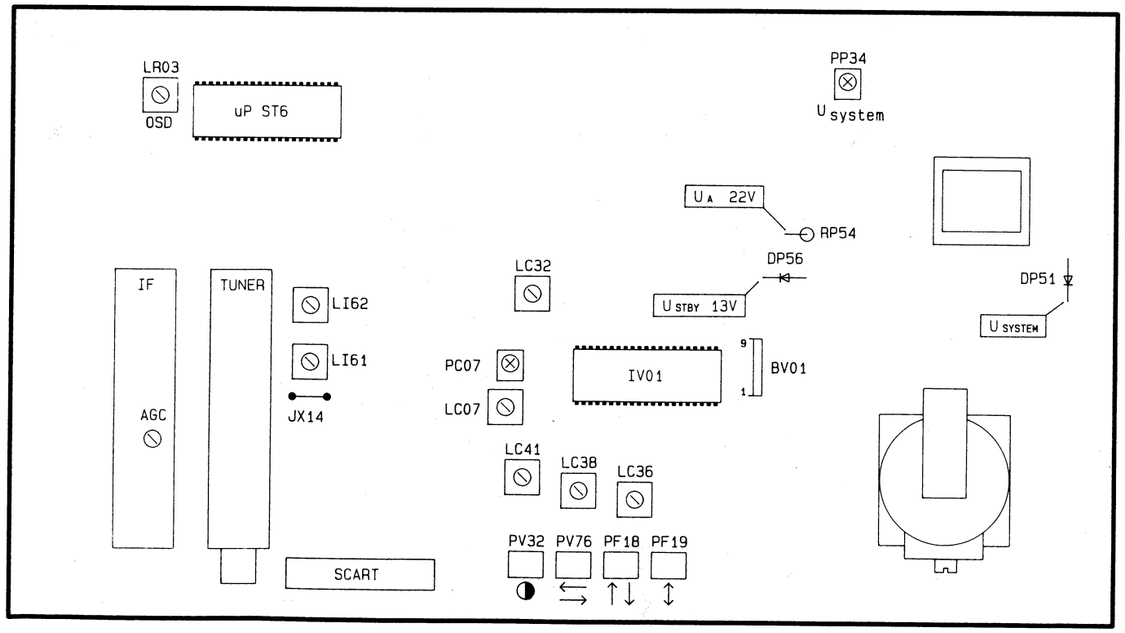
Bestell-Nr. 102.265.90

Chassis ICC 6

ICC 6084 / ICC 6643 / ICC 6683
ICC 6944 / ICC 6964 / ICC 6984

ACHTUNG! Ersatzteilbestellungen
sind schneller und kostengünstiger über
Fax 0511/418-1260

Service-Lageplan · Layout diagram · Disposition des régleurs
Posizione regulatori di servizio · Situation de los ajustes

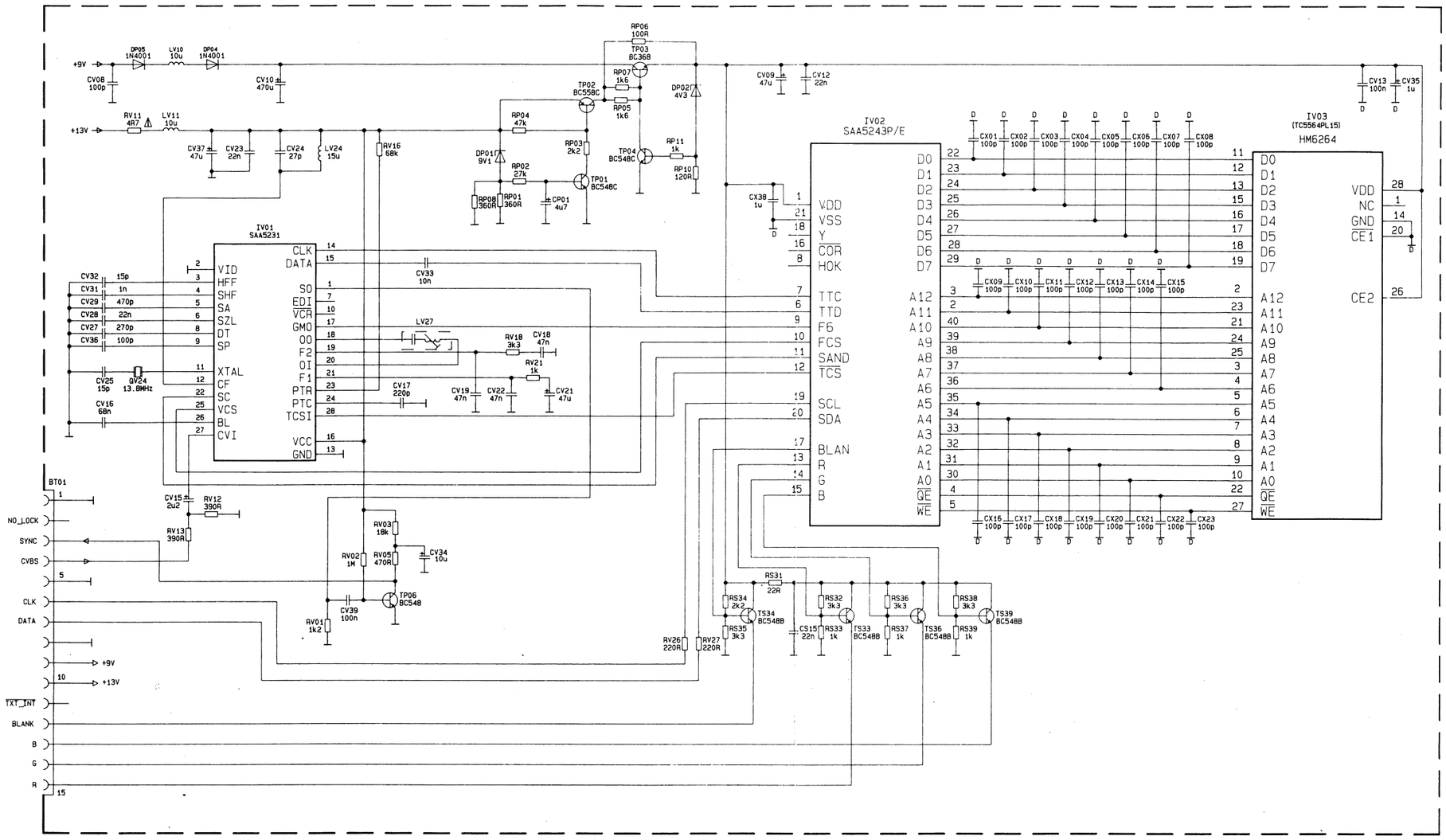


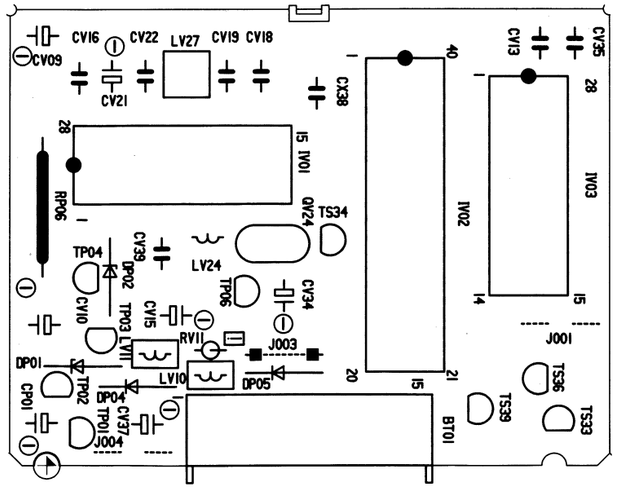
Änderungen vorbehalten · Suject to change · Modifications réservées · Con riserva di modifiche · Reservado derecho de modificacion

Service-Einstellungen · Service adjustments · Réglages de service · Regolazioni di servizio · Ajustes de servicio

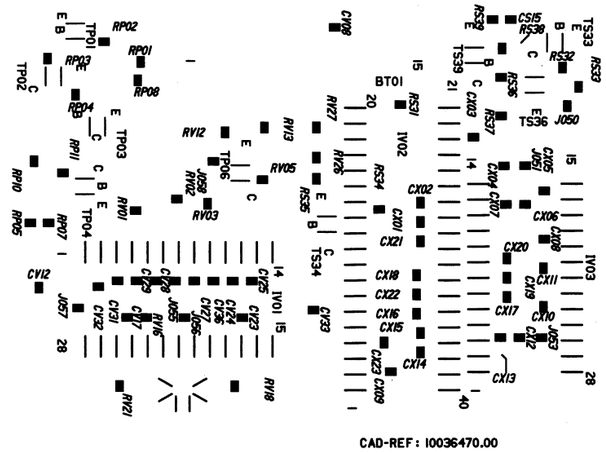
U system	PP34	---	V DP51	17" : 108V 20" : 117V 21" : 117V
H.-Pos.	PV76	---		
V.-Pos.	PF18	---		
V.-Ampl.	PF19	---		
U G2	G2	= min.	V Collektor - TB31 - TB41 - TB51	17" : 140V 20" : 160V 21" : 160V
Spitzenweiß Peak-white	PV32		C B TB51 E	17" : 80V 20" : 90V 21" : 95 V
Sound-Trap 5,5 MHz (6,5 MHz)	LI61 (LI62)		RI62 JX14 RI63	U min, < 35dB
AGC	AGC	3mV Ch 9 BG	Pin 3 Tuner V HF-Voltmeter RF-Voltmeter	1. max. 2. max. - 8dB
PAL Chroma Delay	LC07 PC07	PAL	C B TB51 E	min. line 1 + line 2 min.
Secam Ident	LC41	Secam	V IV01 Pin 23	U max.
Secam B-Y, R-Y	LC36 LC38	Secam PAL		Grau (PAL) = Grau (Secam) Grey (PAL) = Grey (Secam)
Secam Cloche-Filter	LC32	Secam	BV01 Pin 5	B-out-Signal without distortion
Grauabgleich grey alignment (Bildrohrplatte) (CRT-Board)	PB47 PB37	Grau, grey		Grau, grey
Weißabgleich white alignment (Bildrohrplatte) (CRT-Board)	PB31 PB41	Grau, grey		Weiß, white

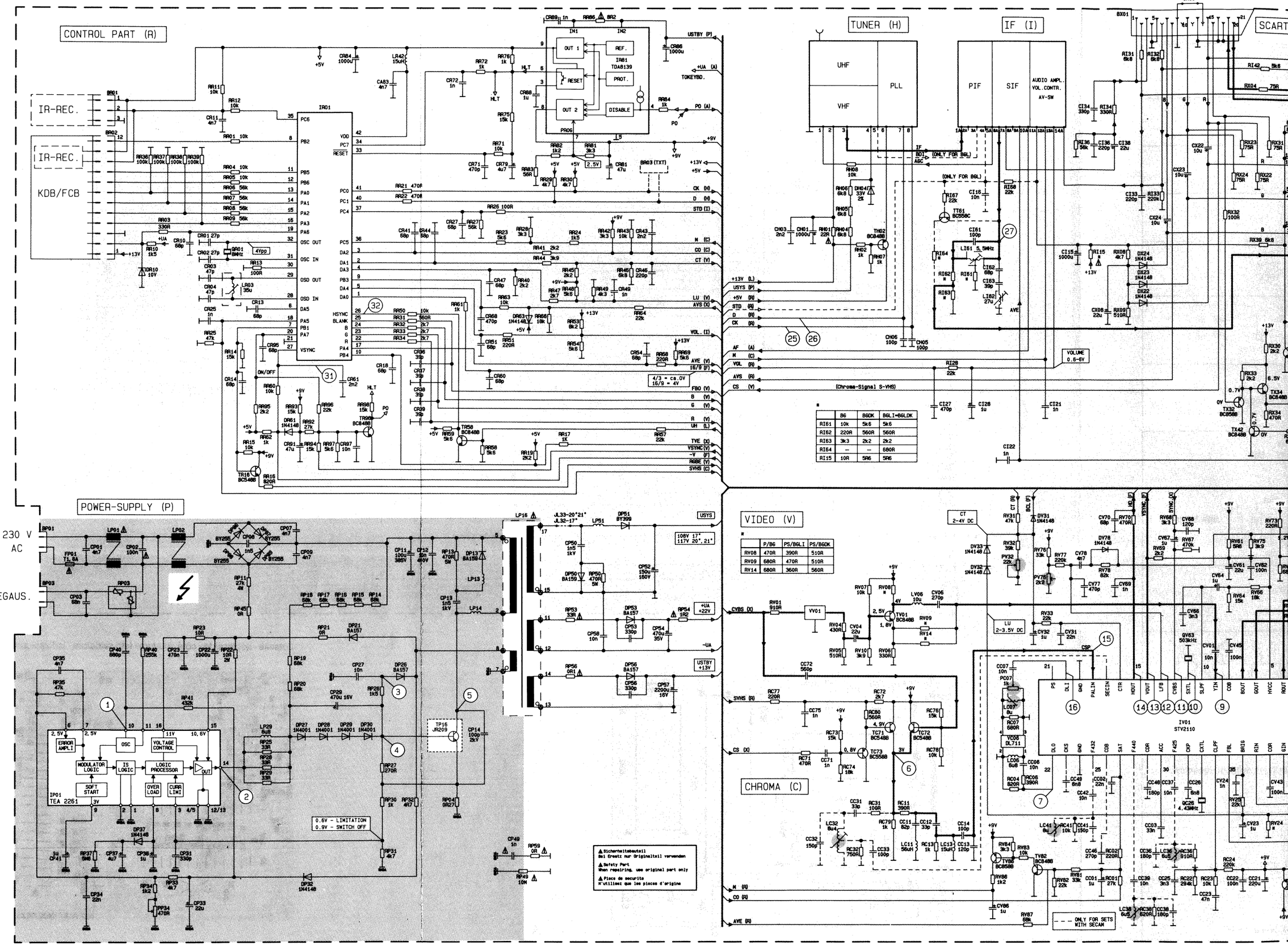
Videotext-Decoder DVT 6601 · Teletext Decoder · Décodeur Vidéotexte · Decoder Televideo · Descodificador Teletexto





Lötseite · solder side · côté soudure · lato saldature · lado soldaduras





	B6	B6DK	B6LI-B6LDK
RI61	10k	5k6	5k6
RI62	220R	560R	560R
RI63	3k3	2k2	2k2
RI64	–	–	680R
RI15	10R	5R6	5R6

	P/B6	PS/B6LI	PS/B6DK
RV08	470R	390R	510R
RV09	680R	470R	510R
RV14	680R	360R	560R

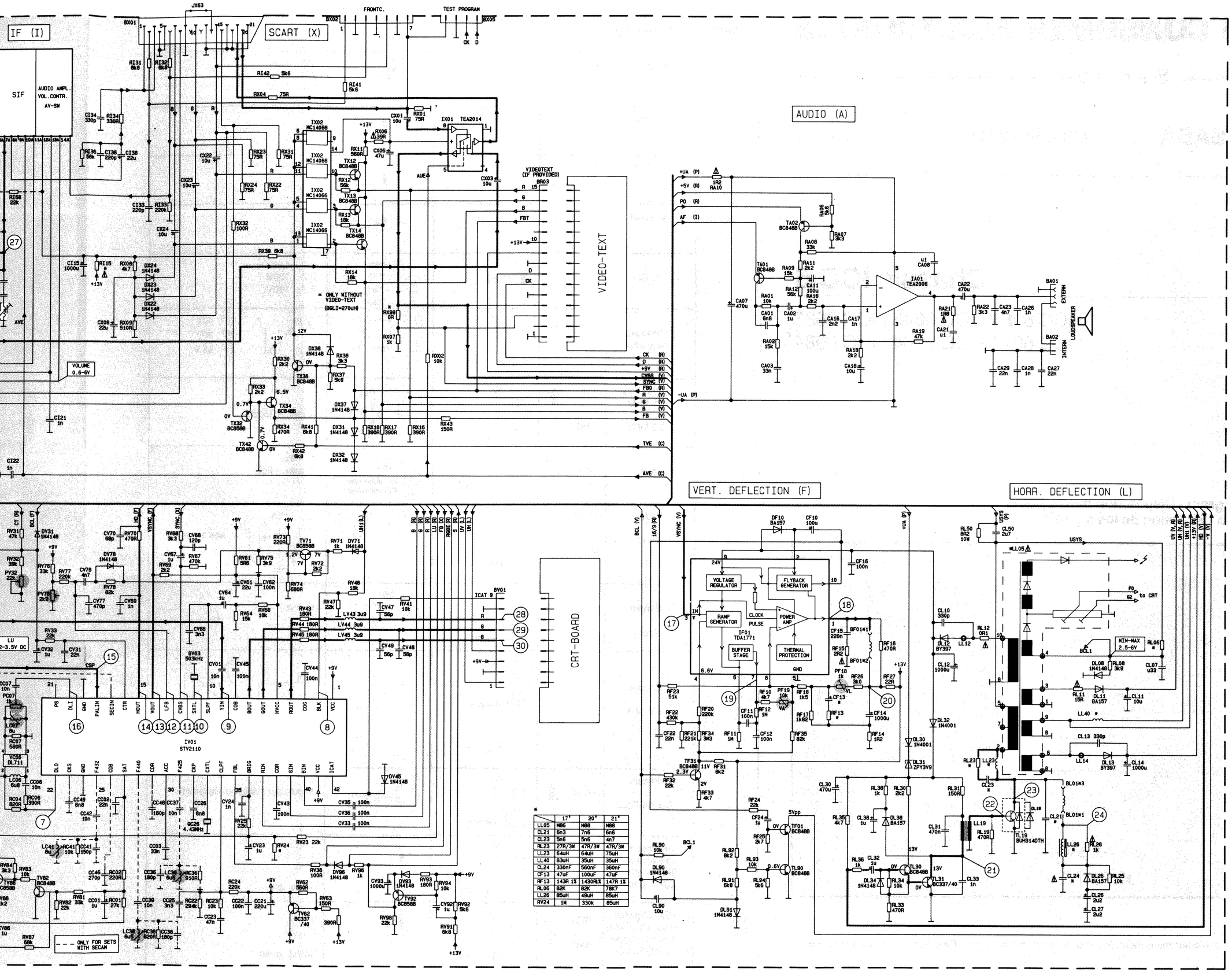
Achtung!
Auf der Primärseite des Netzteils alle Spannungen und Oszillogramme gegen Primär-Netzteilmasse messen.

Important!
On the primary side of the line section, measure all voltages and oscillogrammes against primary line section ground

Attention!
Sur le côté primaire du block Secteur, mesurer toutes les tensions et Oscillogrammes contre la masse primaire du block secteur

Attenzione!
Nella zone primmaria tutte le tensioni e gli oscillogrammi sono misurati verso massa alimentatore primario

Atención!
En el lado primario de la fuente de alimentación (lado de la red) todas las tensiones y oscillogramas son medidos contra la masa de este mismo lado



*	17"	20"	21"
LL05	M86	M88	M88
CL21	6n3	7n6	6n6
CL23	5n6	5n6	4n7
RL23	27R/3W	47R/3W	47R/3W
LL23	64uH	64uH	75uH
LL40	83uH	35uH	35uH
CL24	330nF	560nF	360nF
CF13	47uF	100uF	47uF
RF13	143R 1%	1430R1%	147R 1%
RL06	82K	82K	78K7
LL26	85uH	49uH	85uH
RV24	1M	330k	85uH

Das Chassis ist netzgetrennt. Die Trennstelle liegt im Netzteil. Um die VDE-Sicherheit zu gewährleisten, ist nach einer Reparatur sicherzustellen:

1. Auf Luft- und Kriechstrecken achten! Z. B. durchstehende Drähte ausgewechselter Bauelemente kurz abschneiden.
2. Sicherheitsbauteile ⚠ nur gegen Original-Ersatzteile auswechseln (siehe Stromlaufplan).

The chassis is isolated from line voltage. The isolation point is in the line section. In order to insure safety as per VDE requirements, the following must be checked after any repairs:

1. Check for air gap and leakage paths! For example, protruding ends of wires passing through the board must be cut off short.
2. Components with an essential safety function ⚠ are to be replaced only with original-equipment parts (see circuit diagram).

Le chassis est séparé du réseau. La séparation est située dans la partie alimentation. Pour assurer la sécurité au regard des normes VDE, après une réparation, il convient de veiller à

1. Prévenir des formations de circuits aériens ou rampants. Par ex. couper court les fils qui dépassent ou les éléments de construction échangés.
2. N'échanger les éléments de sécurité ⚠ que contre des pièces de rechange d'origine (cf. plan de passage du courant).

Il telaio é separato rete. Il punto di separazione risieda tra sezione rete. Per garantire la sicurezza VDE a riparazione effettuata deve essere assicurato che:

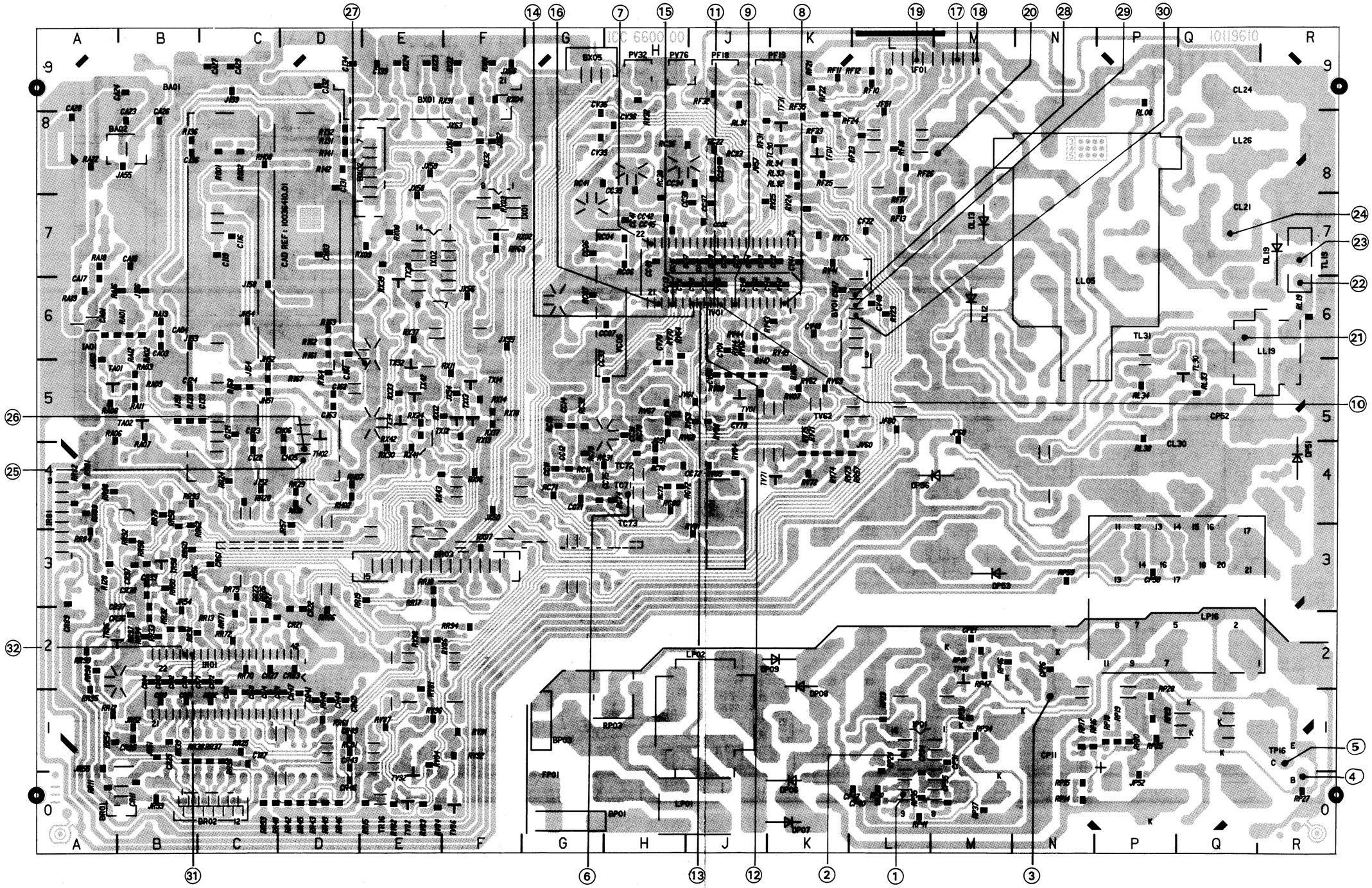
1. Tenere conto delle distanze dei componenti e dei percosi! p.e. i terminali in passaggio dei componenti sostituiti devono essere tagliati corti.
2. Componenti di sicurezza ⚠ devono essere sostituiti solamente con ricambi originali (vedere schema).

El chasis está aislado de la red. La separación se produce en la fuente de alimentación. Para garantizar la seguridad en cumplimiento de las normas VDE, después de una reparación, asegurarse de lo siguiente.

1. Mantener la distancia entre componentes. Por ejemplo, cortando todo lo posible los hilos y terminales que sobresalgan de las pistas del circuito impreso.
2. Los componentes marcados en el esquema con el símbolo ⚠ deben ser substituidos por repuestos originales (ver esquema).

Chassis-Grundplatte · Chassis base board · Plaque de base du chassis · Piastra base telaio · Chasis placa base

Lötseite · solder side · côté soudure · lato saldature · lado soldaduras



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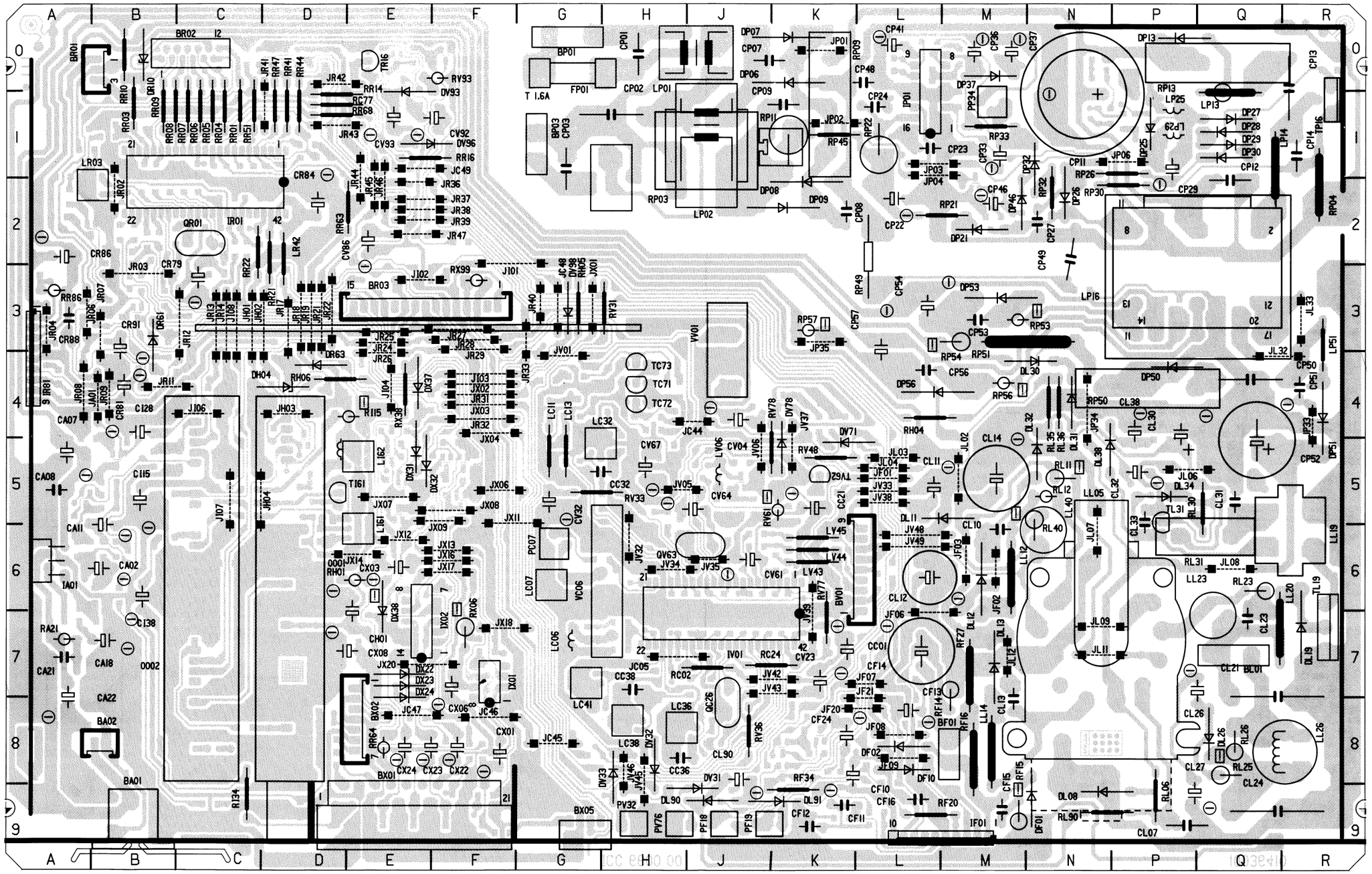

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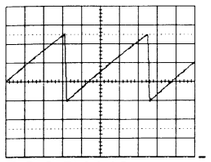
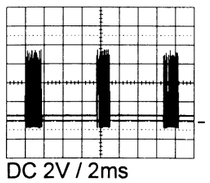
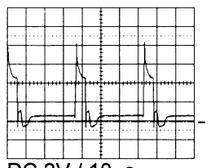
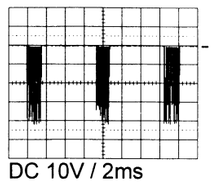
Farbbalkentestbild 75% weiß, Color bar test pattern 75% white

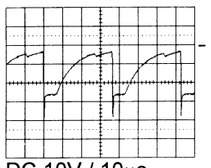
B = Burstbetrieb, Stand by mode,
V = Vollbetrieb, On mode

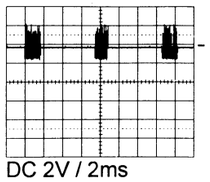
1

DC 0.5V / 10µs

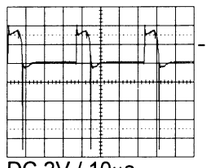
2 - B

DC 2V / 2ms

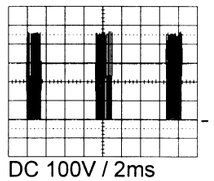
2 - V

DC 2V / 10µs

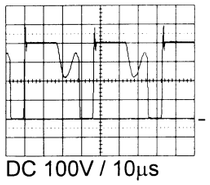
3 - B

DC 10V / 2ms

3 - V

DC 10V / 10µs

4 - B

DC 2V / 2ms

4 - V

DC 2V / 10µs

5 - B

DC 100V / 2ms

5 - V

DC 100V / 10µs

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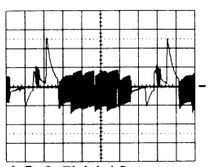
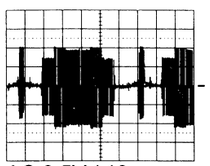
6

AC 0.5V / 10µs

7

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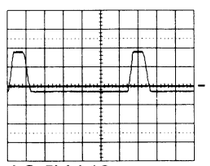
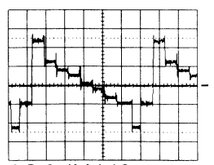
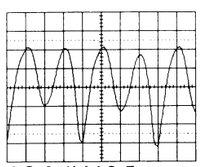
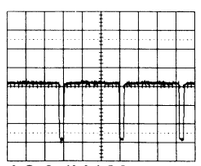
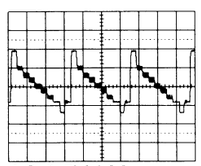

AC 5V / 10µs

9

AC 0.1V / 10µs

10

AC 0.1V / 0.5µs

11 mit V-Text

AC 0.1V / 20µs

11 o. V-Text (gebrückt)

AC 0.5V / 20µs

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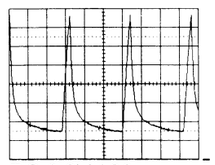
DC 0.2V / 20µs

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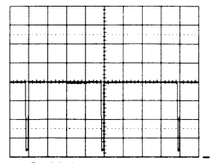
DC 2V / 5ms

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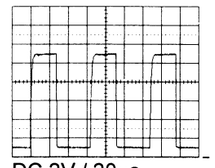
DC 2V / 20µs

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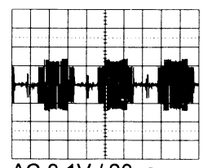
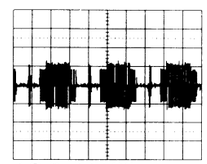

AC 0.1V / 20µs

16

AC 0.1V / 20µs

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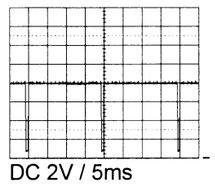
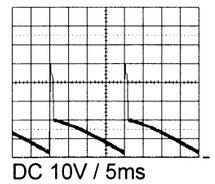

DC 2V / 5ms

18

DC 10V / 5ms

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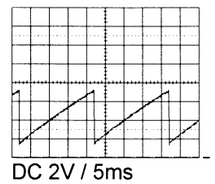
DC 2V / 5ms

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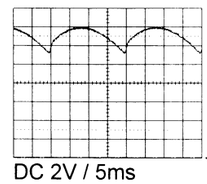
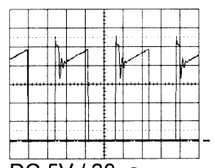
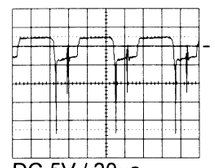

DC 2V / 5ms

21

DC 5V / 20µs

22

DC 5V / 20µs

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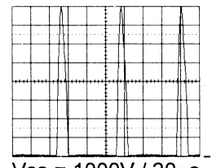
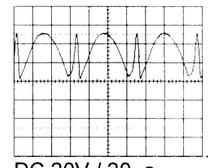
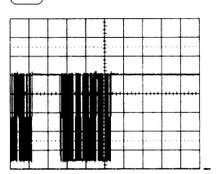
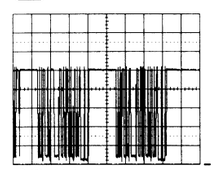
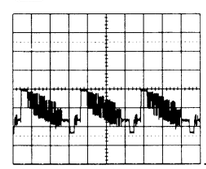
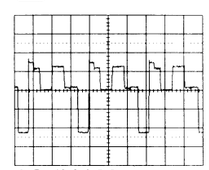

Vss = 1000V / 20µs

24

DC 20V / 20µs

25

DC 1V / 5ms

26

DC 1V / 5ms

27

DC 1V / 20µs

28

AC 1V / 20µs

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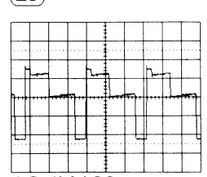
AC 1V / 20µs

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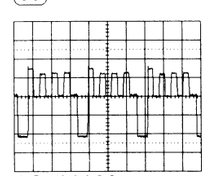
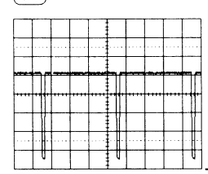
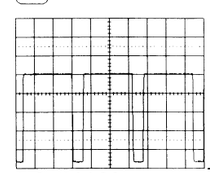
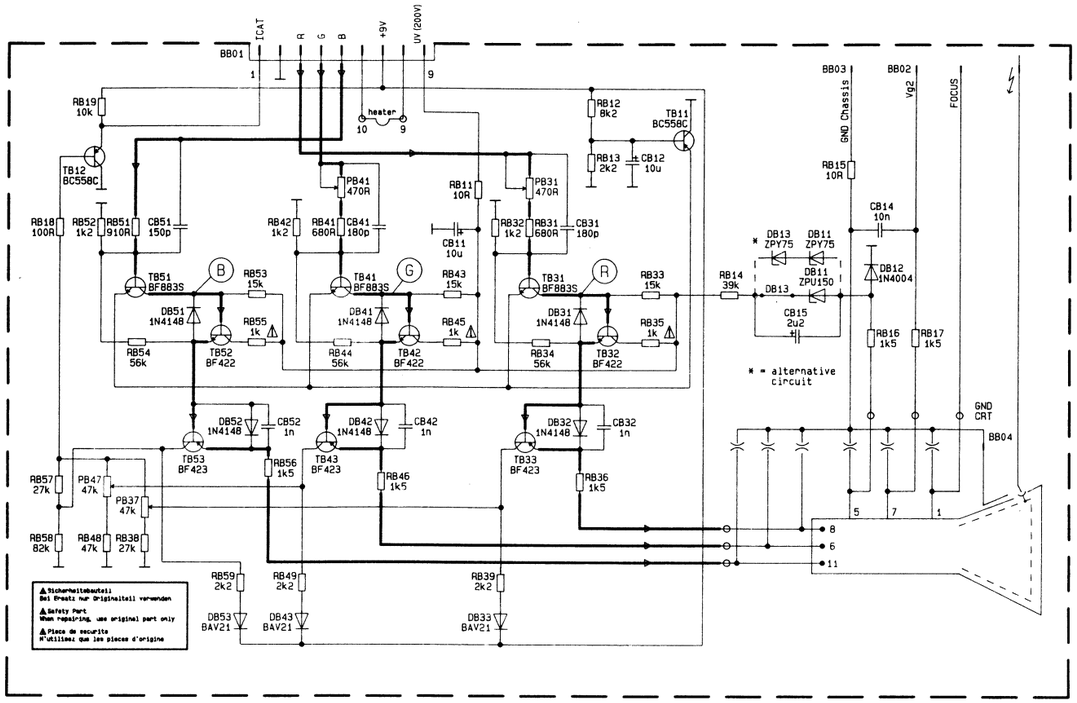
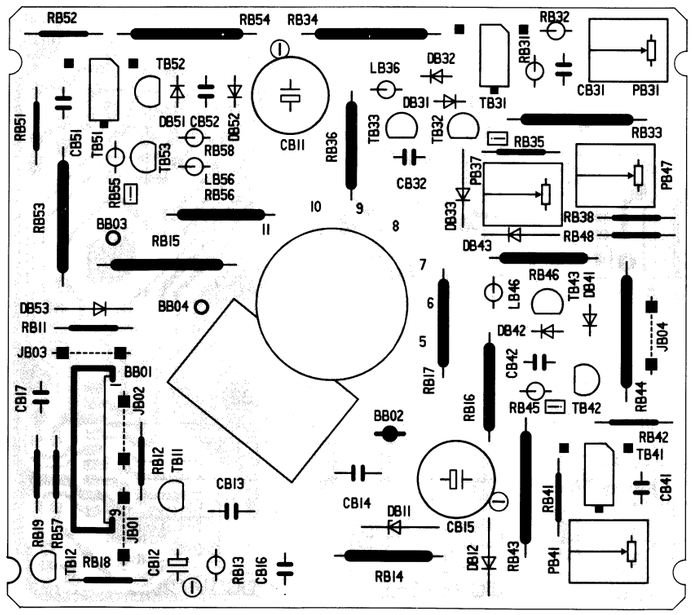

AC 1V / 20µs

31

DC 1V / 5ms

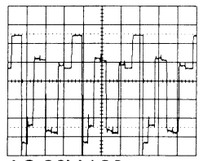
32

DC 1V / 20µs

Bildröhrenplatte 6625 · Picture tube board · Platine tube image · Basetta Ciescopio · Placa de tubo de imagen



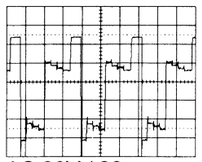


R (TB31)



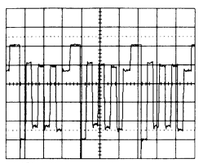
AC 20V / 20µs

G (TB41)



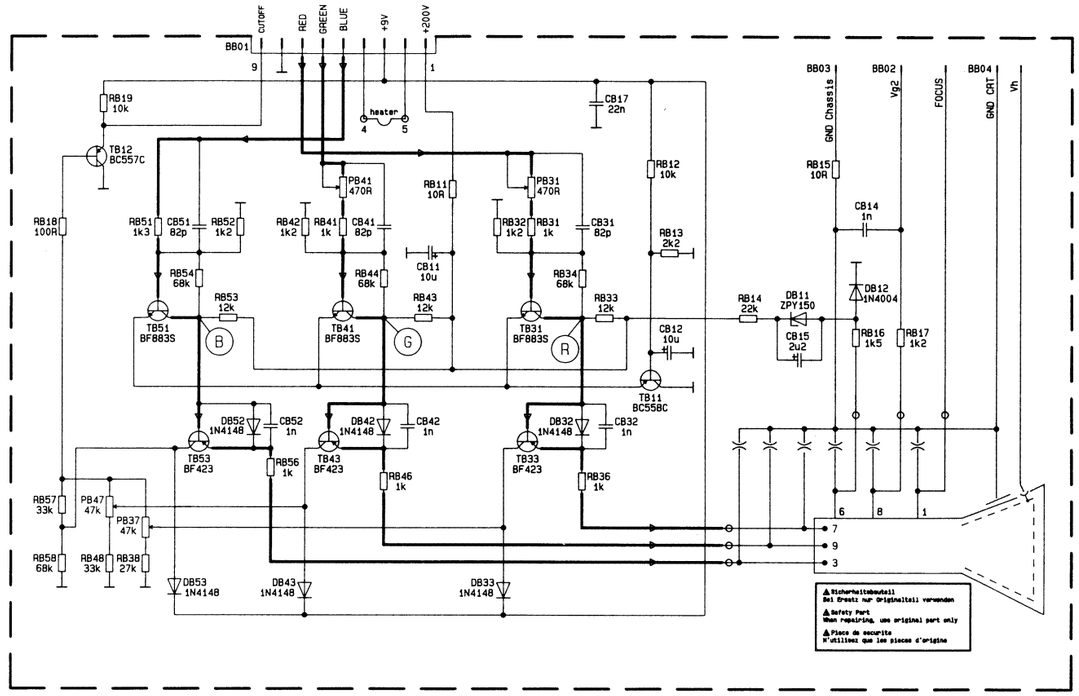
AC 20V / 20µs

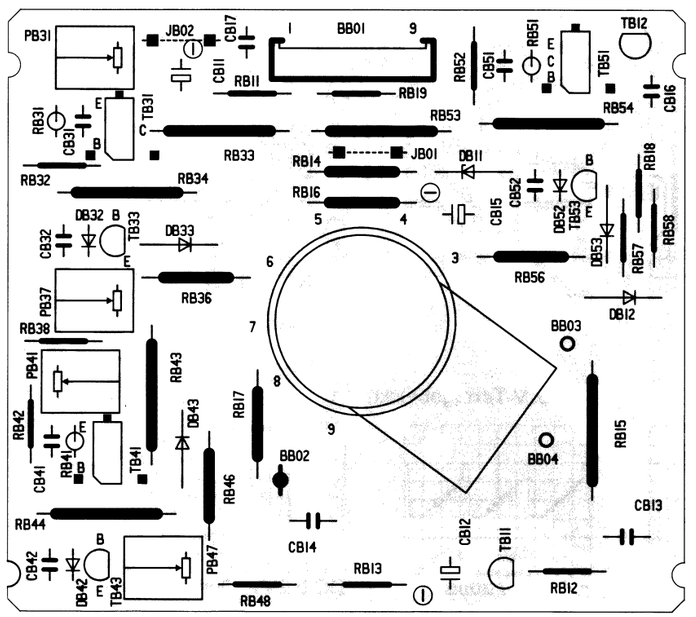
B (TB51)



AC 20V / 20µs

Bildröhrenplatte 6601 · Picture tube board · Platine tube image · Basetta Ciescopio · Placa de tubo de imagen





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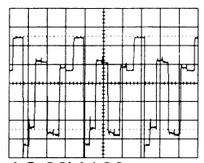
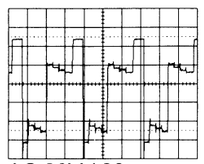


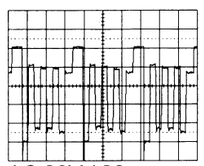
AC 20V / 20µs

G (TB41)



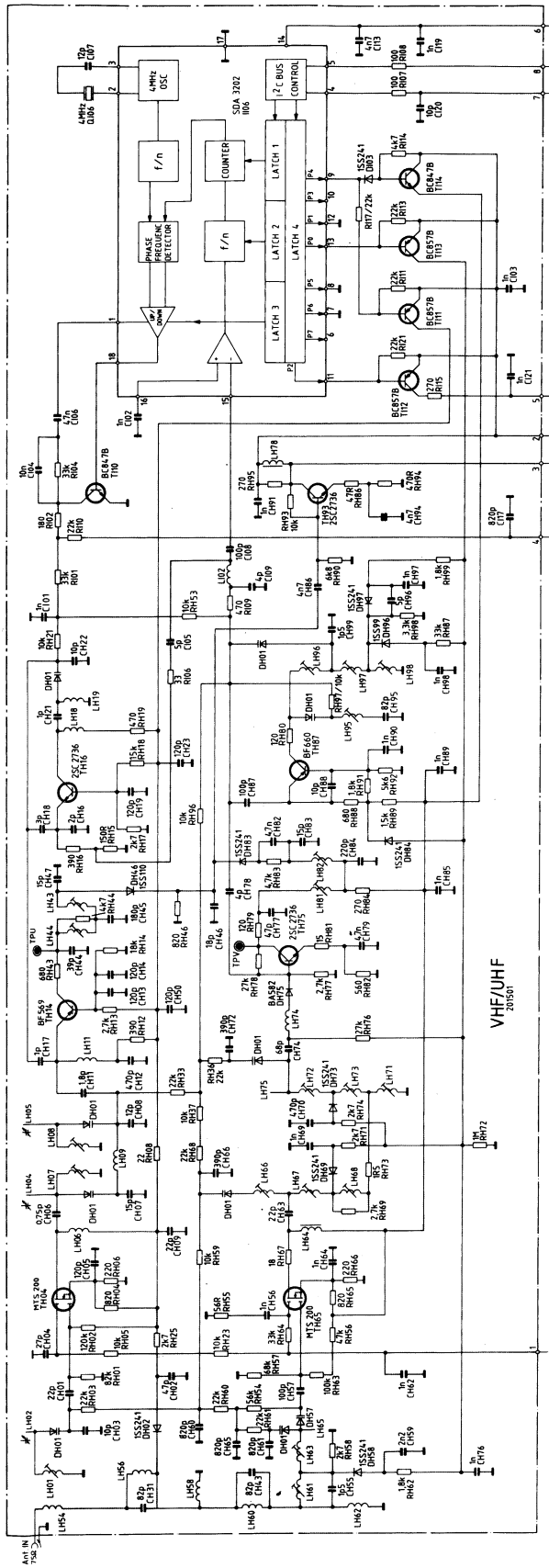
AC 20V / 20µs

B (TB51)

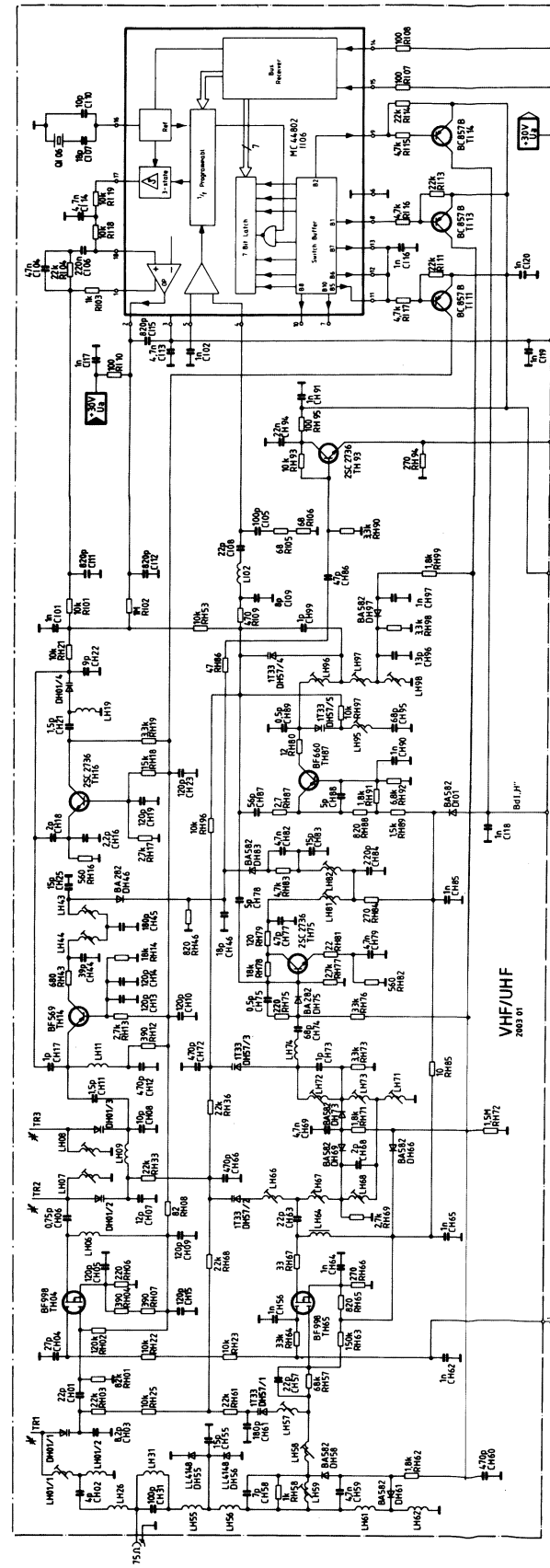


AC 20V / 20µs

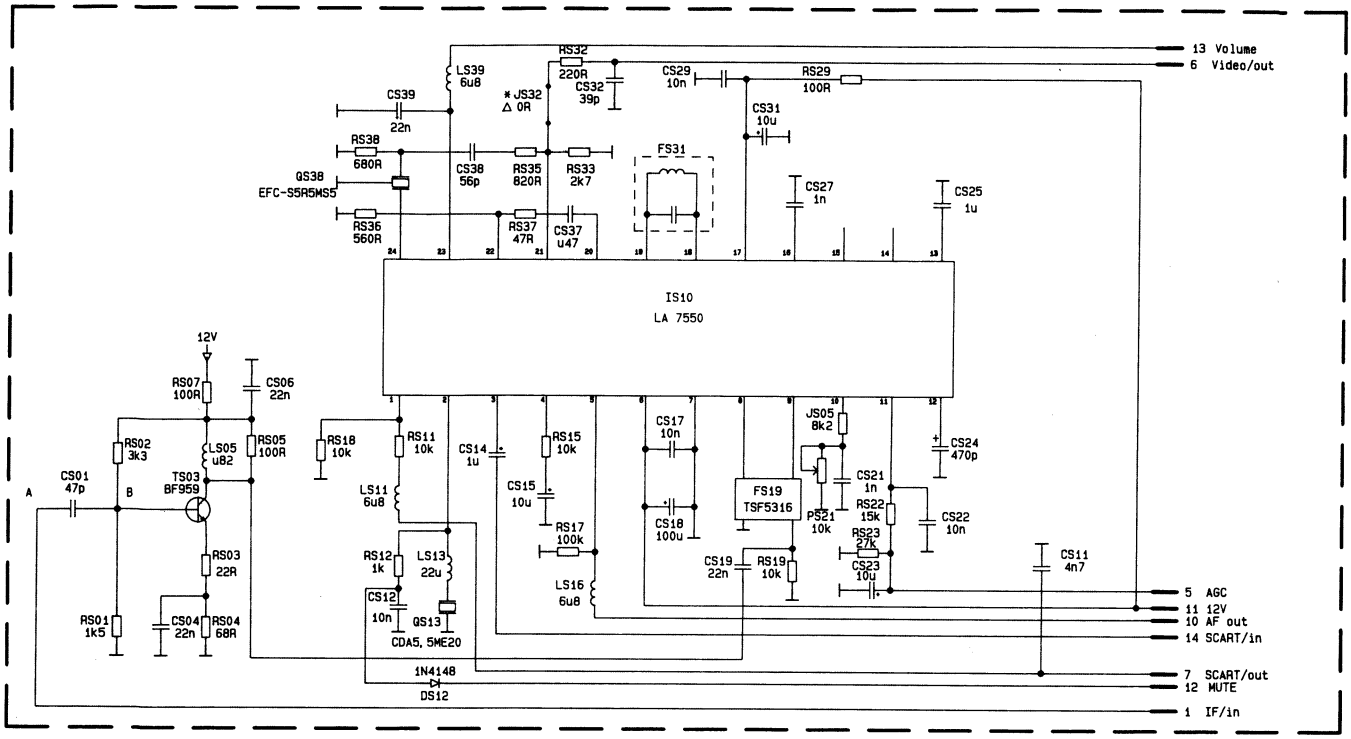
Tuner 2015



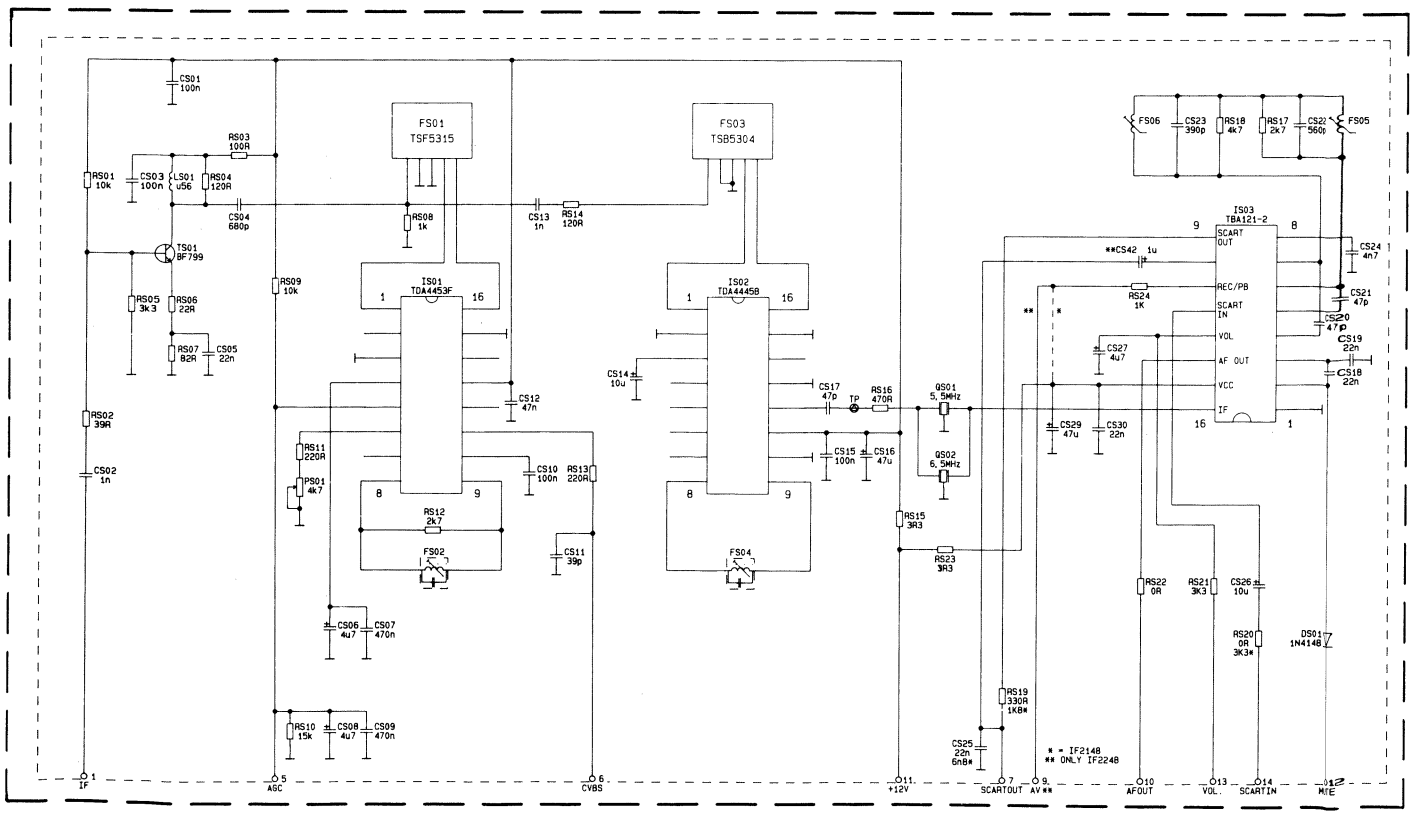
Tuner 2003



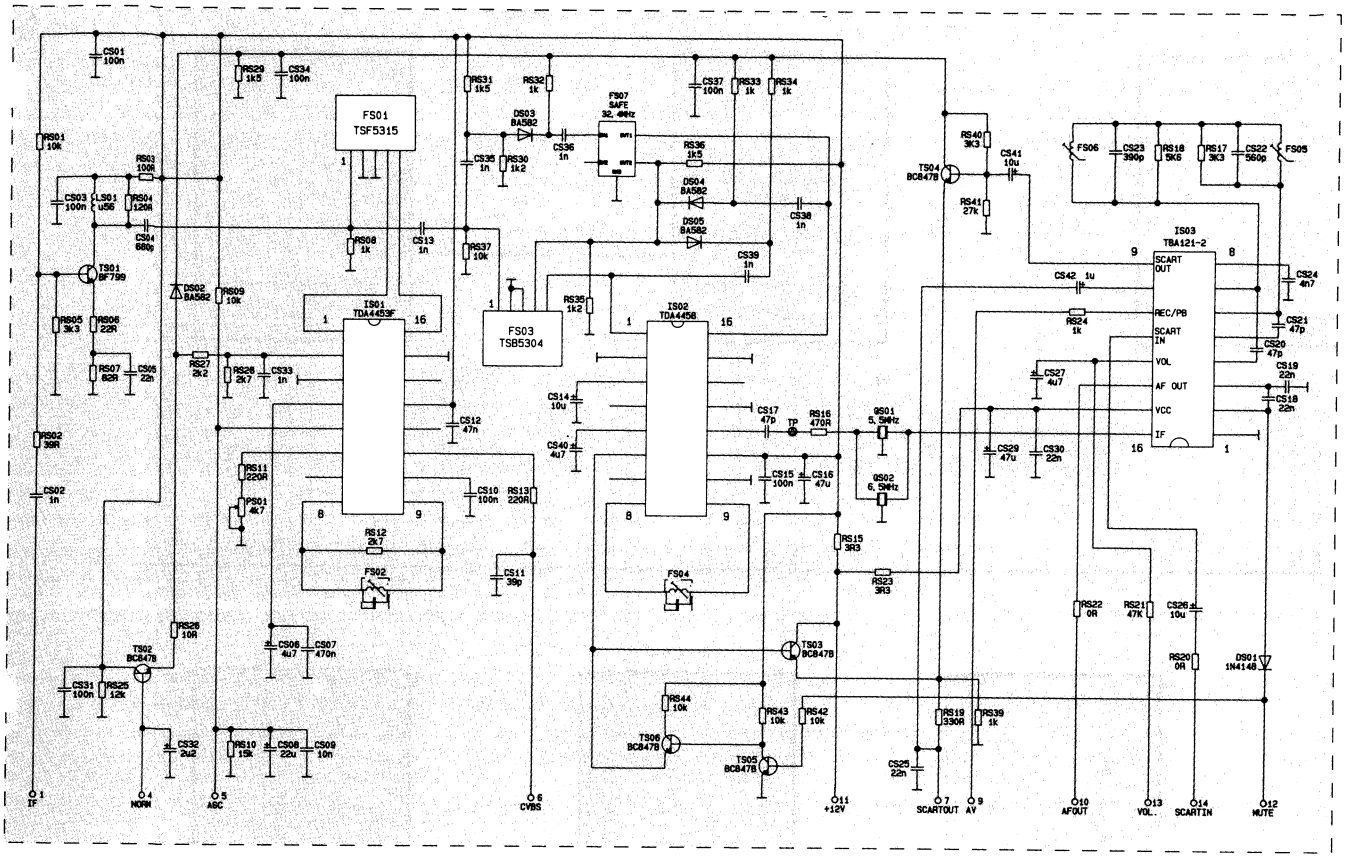
ZF-Verstärker 2109 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador FI



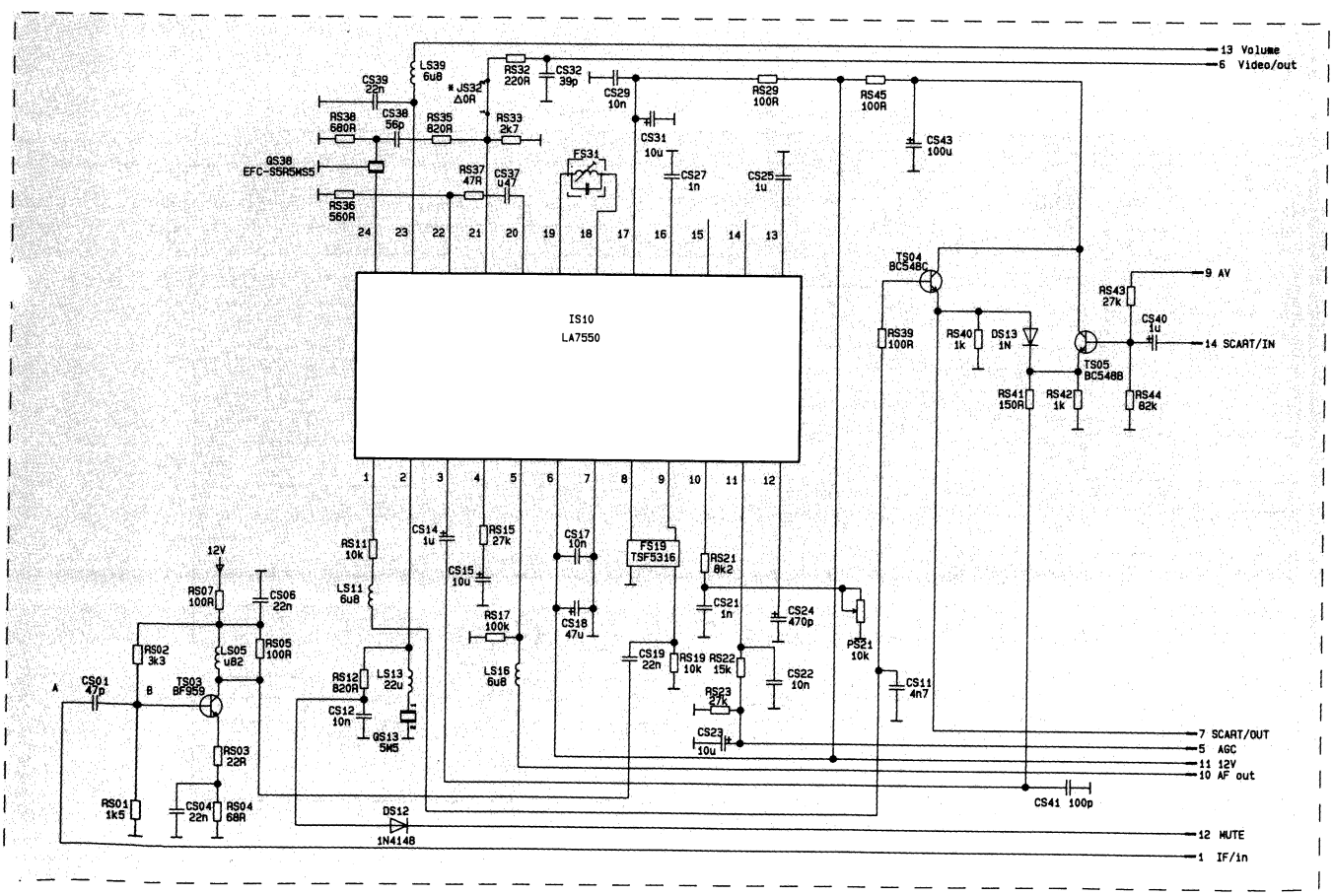
ZF-Verstärker 2148, 2248 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador FI

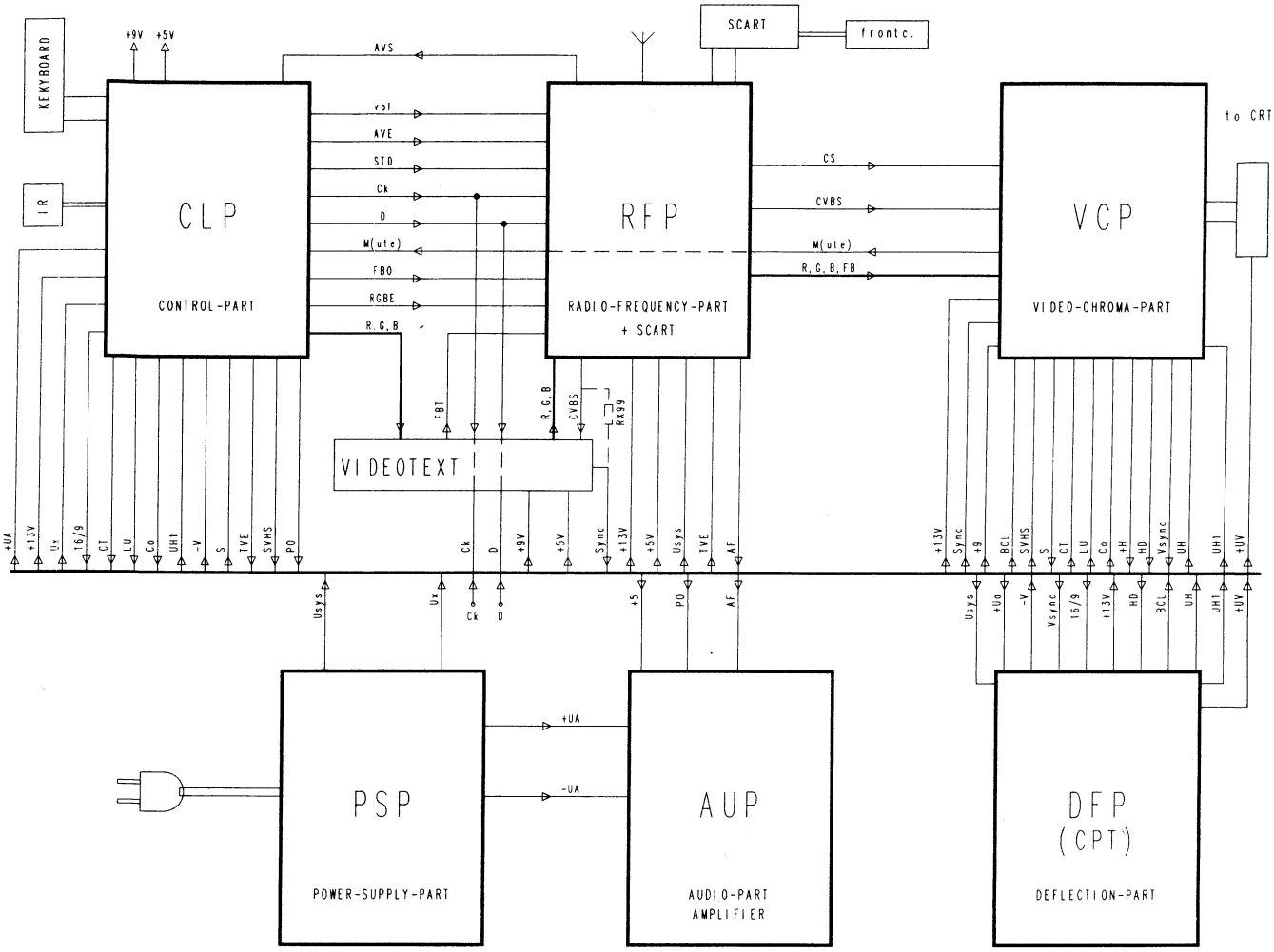


ZF-Verstärker 2149 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador FI

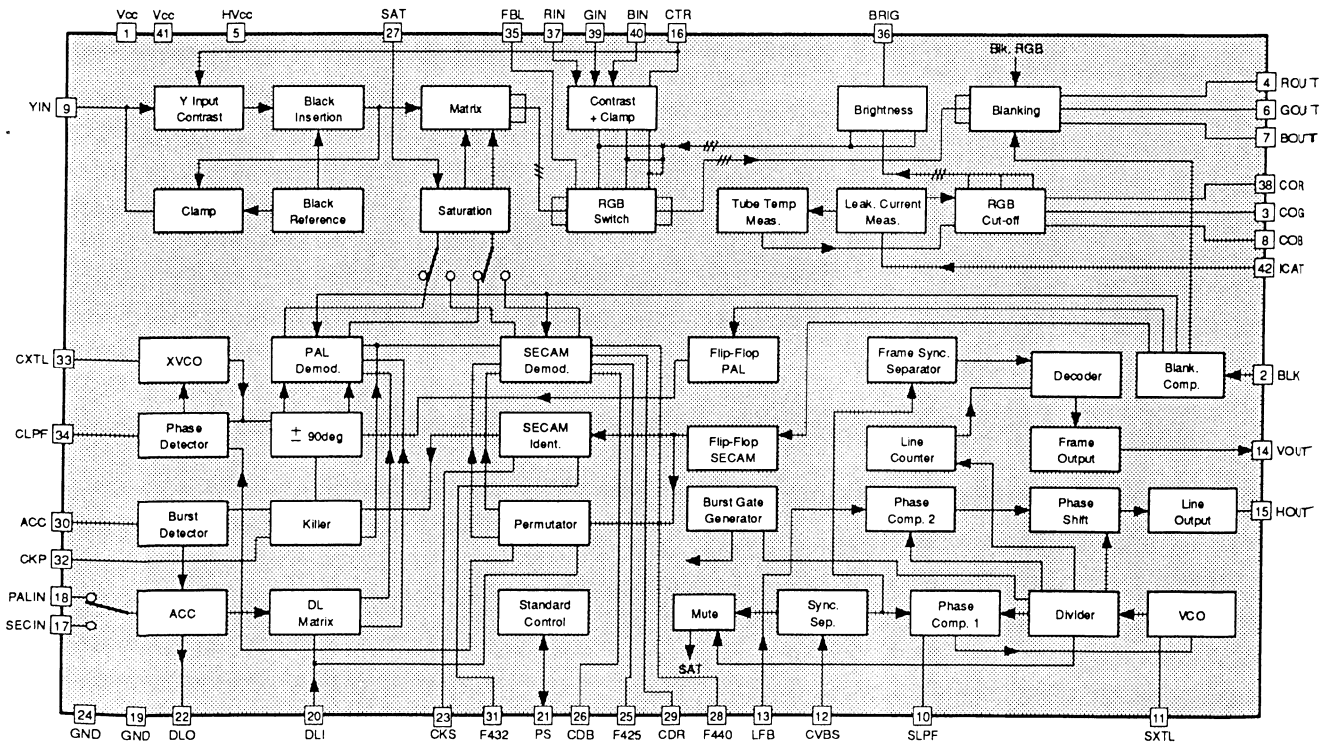


ZF-Verstärker 2600 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador FI




KEYBOARD
IR
CLP
CONTROL-PART
RFP
RADIO-FREQUENCY-PART
+ SCART
SCART
frontc.
VCP
VIDEO-CHROMA-PART
to CRT
VIDEOTEXT
PSP
POWER-SUPPLY-PART
AUP
AUDIO-PART
AMPLIFIER
DFP
(CPT)
DEFLECTION-PART
+9V
+5V
AVS
rol
AVE
STD
Ck
D
M(ute)
FBO
RGBE
R,G,B
CS
CVBS
M(ute)
R,G,B,FB
+UA
-UA

STV 2110


Vcc
Vcc
HVcc
SAT
FBL
RIN
GIN
BIN
CTR
BRIG
Blk. RGB
YIN
Y Input Contrast
Black Insertion
Matrix
Contrast + Clamp
Brightness
Blanking
Clamp
Black Reference
Saturation
RGB Switch
Tube Temp Meas.
Leak. Current Meas.
RGB Cut-off
ROUT
GOUT
BOUT
COR
COG
COB
ICAT
CXTL
XVCO
PAL Demod.
SECAM Demod.
Flip-Flop PAL
Frame Sync. Separator
Decoder
Blank. Comp.
BLK
CLPF
Phase Detector
± 90deg
SECAM Ident.
Flip-Flop SECAM
Line Counter
Frame Output
VOUT
ACC
Burst Detector
Killer
Permutator
Burst Gate Generator
Phase Comp. 2
Phase Shift
Line Output
HOUT
CKP
PALIN
SECIN
ACC
DL Matrix
Standard Control
Mute
Sync. Sep.
Phase Comp. 1
Divider
VCO
SAT
GND
GND
DLO
DLI
CKS
F432
PS
CDB
F425
CDR
F440
LFB
CVBS
SLPF
SXTL

TELEFUNKEN

SERVICE

FERNSEHEN
TELEVISION
TÉLÉVISION

Bestell-Nr. 319 801 016

Chassis ICC 6

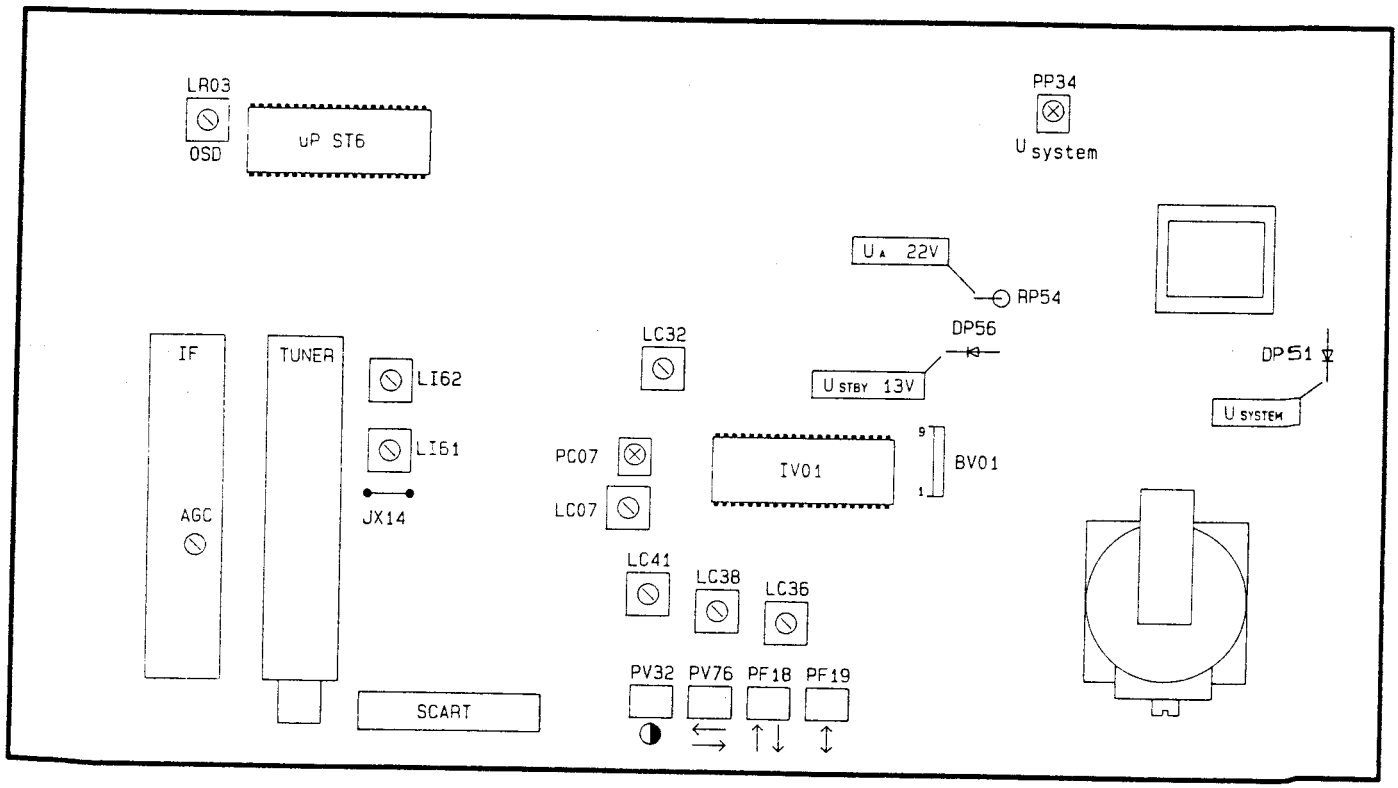
ACHTUNG! Ersatzteilbestellungen sind schneller und kostengünstiger über

Btx ✻ 381000080 #

(Nur in der Bundesrepublik Deutschland)

Fax 0130837777

Service-Lageplan · Layout diagram · Disposition des régleurs
Posizione regulatori di servizio · Situation de los ajustes

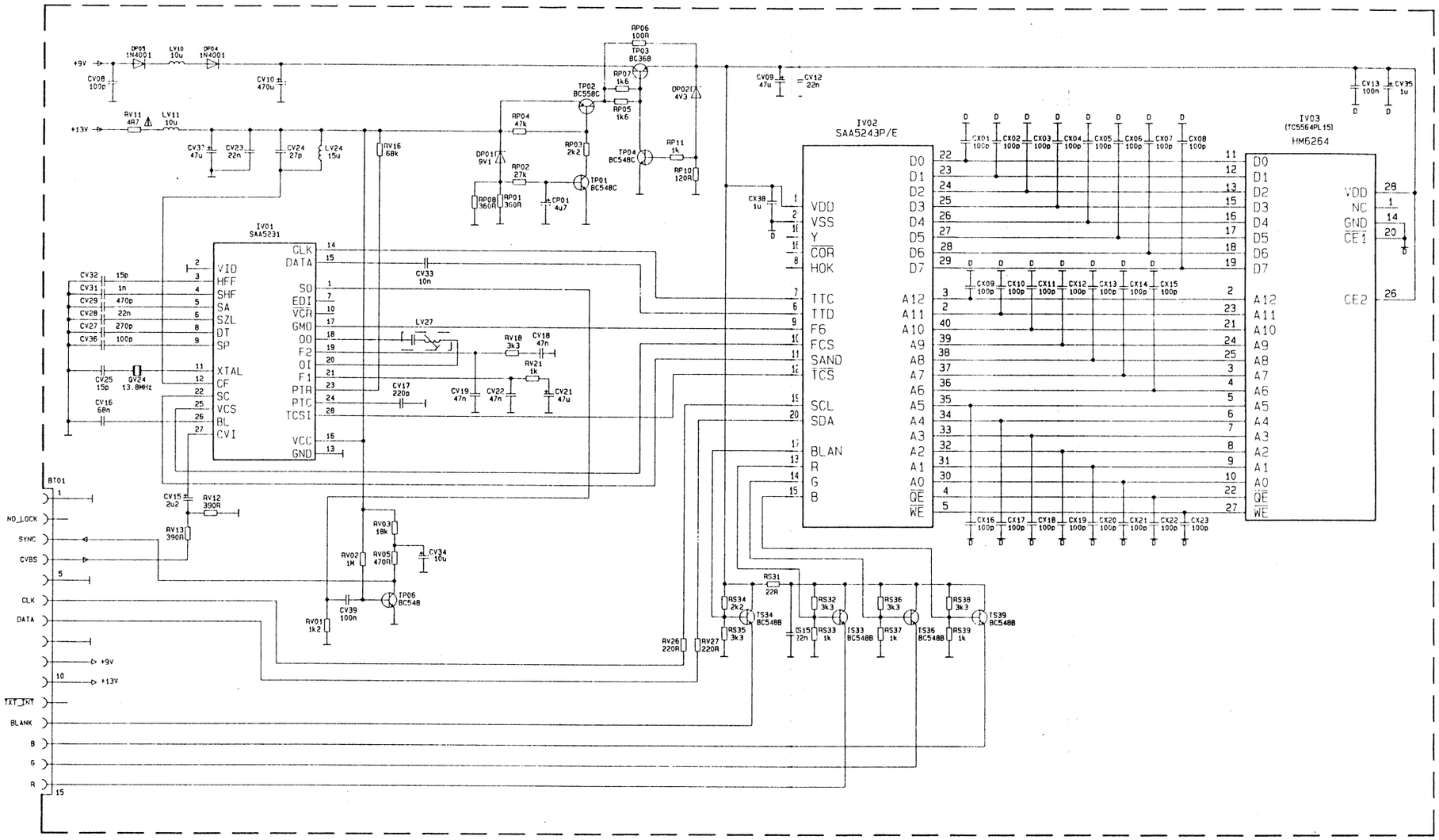


Änderungen vorbehalten · Suject to change · Modifications réservées · Con riserva di modifiche · Reservado derecho de modificacion

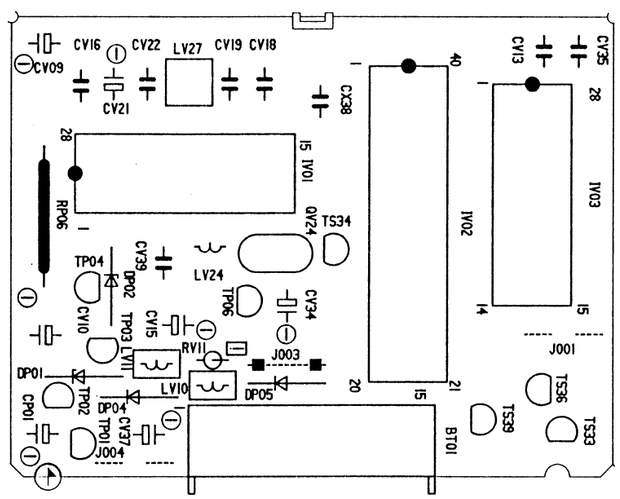
Service-Einstellungen · Service adjustments · Réglages de service · Regolazioni di servizio · Ajustes de servicio

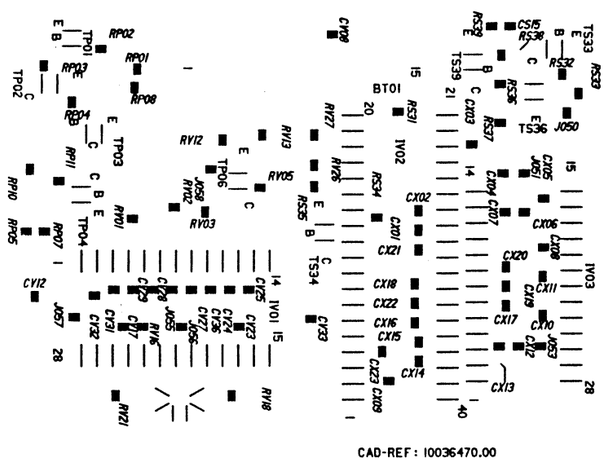
U system	PP34	---	DP51	17" : 104V 20" : 113V 21" : 113V
H.-Pos.	PV76	---		
V.-Pos.	PF18	---		
V.-Ampl.	PF19	---		
U G2	G2	= min.	Collektor - TB31 - TB41 - TB51	17" : 140V 20" : 160V 21" : 160V
Spitzenweiß Peak-white	PV32		TB51	17" : 80V 20" : 90V 21" : 95 V
Sound-Trap 5,5 MHz (6,5 MHz)	LI61 (LI62)		RI62 JX14 RI63	U min, < 35dB
AGC	AGC	3mV Ch 9 BG	Pin 3 Tuner	1. max. 2. max. - 8dB
PAL Chroma Delay	LC07 PC07	PAL	TB51	min. min. line 1 + line 2
Secam Ident	LC41	Secam	IV01 Pin 23	U max.
Secam B-Y, R-Y	LC36 LC38	Secam PAL		Grau (PAL) = Grau (Secam) Grey (PAL) = Grey (Secam)
Secam Cloche-Filter	LC32	Secam	BV01 Pin 5	B-out-Signal without distortion
Grauabgleich grey alignment (Bildrohrplatte) (CRT-Board)	PB47 PB37	Grau, grey		Grau, grey
Weißabgleich white alignment (Bildrohrplatte) (CRT-Board)	PB31 PB41	Grau, grey		Weiß, white

Videotext-Decoder DVT 6601 · Teletext Decoder · Décodeur Vidéotexte · Decodɛr Televideo · Descodificador Teletexto



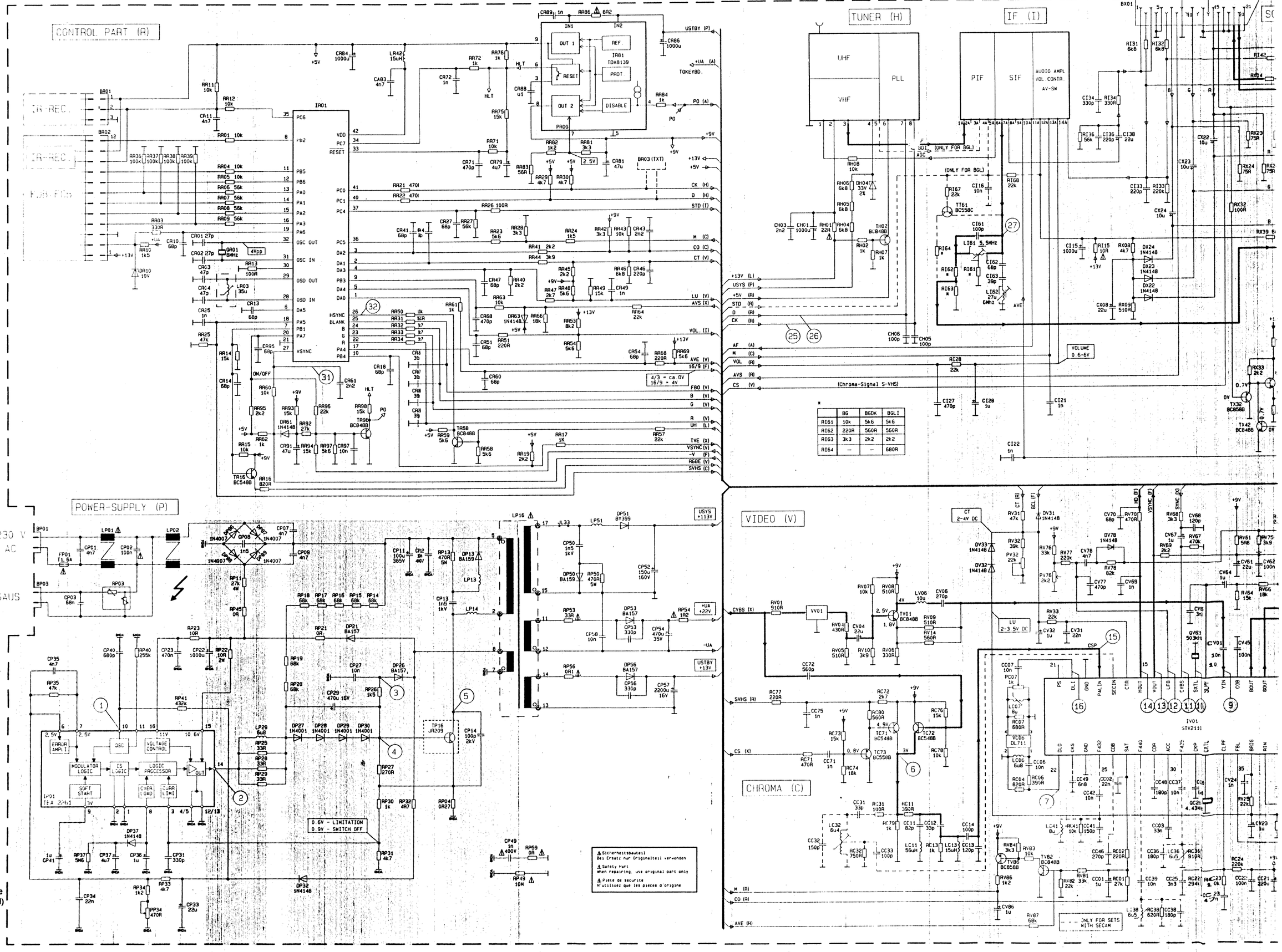
Lötseite · solder side · côté soudure · lato saldature · lado soldaduras





CAD-REF: 10036470.00

Chassis ICC 6



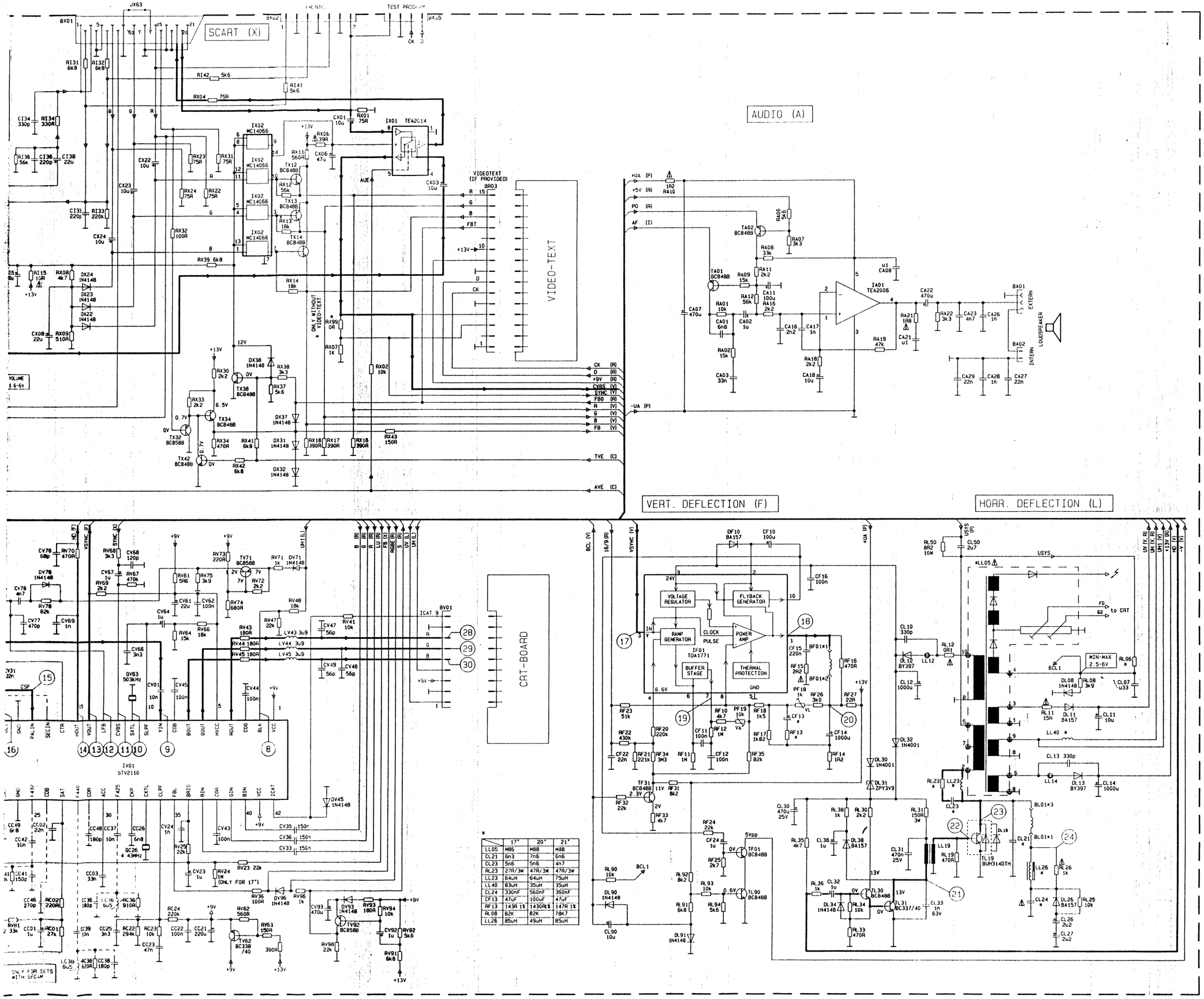
Achtung!
Auf der Primärseite des Netzteils alle Spannungen und Oszillogramme gegen Primär-Netzteilmasse messen.

Important!
On the primary side of the line section, measure all voltages and oscillogrammes against primary line section ground

Attention!
Sur le côté primaire du block Secteur, mesurer toutes les tensions et Oscillogrammes contre la masse primaire du block secteur

Attenzione!
Nella zone primmaria tutte le tensioni e gli oscillogrammi sono misurati verso massa alimentatore primario

Atención!
En el lado primario de la fuente de alimentación (lado de la red) todas las tensiones y oscillogramas son medidos contra la masa de este mismo lado



	17"	20"	21"
LL05	M65	M68	M68
CL21	6n3	7n6	6n8
CL23	5n6	5n6	4n7
RL23	27R/3W	47R/3W	47R/3W
LL23	64uH	64uH	75uH
LL40	83uH	35uH	35uH
CL24	330nF	560nF	360nF
CF13	47uF	100uF	47uF
RF13	143R 1%	1430R1%	147R 1%
RL06	82K	82K	78K7
LL26	85uH	49uH	85uH

Das Chassis ist netzgetrennt. Die Trennstelle liegt im Netzteil. Um die VDE-Sicherheit zu gewährleisten, ist nach einer Reparatur sicherzustellen:

1. Auf Luft- und Kriechstrecken achten! Z. B. durchstehende Drähte ausgewechselter Bauelemente kurz abschneiden.
2. Sicherheitsbauteile ⚠ nur gegen Original-Ersatzteile auswechseln (siehe Stromlaufplan).

The chassis is isolated from line voltage. The isolation point is in the line section. In order to insure safety as per VDE requirements, the following must be checked after any repairs:

1. Check for air gap and leakage paths! For example, protruding ends of wires passing through the board must be cut off short.
2. Components with an essential safety function ⚠ are to be replaced only with original-equipment parts (see circuit diagram).

Le chassis est séparé du réseau. La séparation est située dans la partie alimentation. Pour assurer la sécurité au regard des normes VDE, aprés une réparation, il convient de veiller à

1. Prévenir des formations de circuits aériens ou rampants. Par ex. couper court les fils qui dépassent ou les éléments de construction échangés.
2. N'échanger les éléments de sécurité ⚠ que contre des pièces de rechange d'origine (cf. plan de passage du courant).

Il telaio é separato rete. Il punto di separazione risieda tra sezione rete. Per garantire la sicurezza VDE a riparazione effettuata deve essere assicurato che:

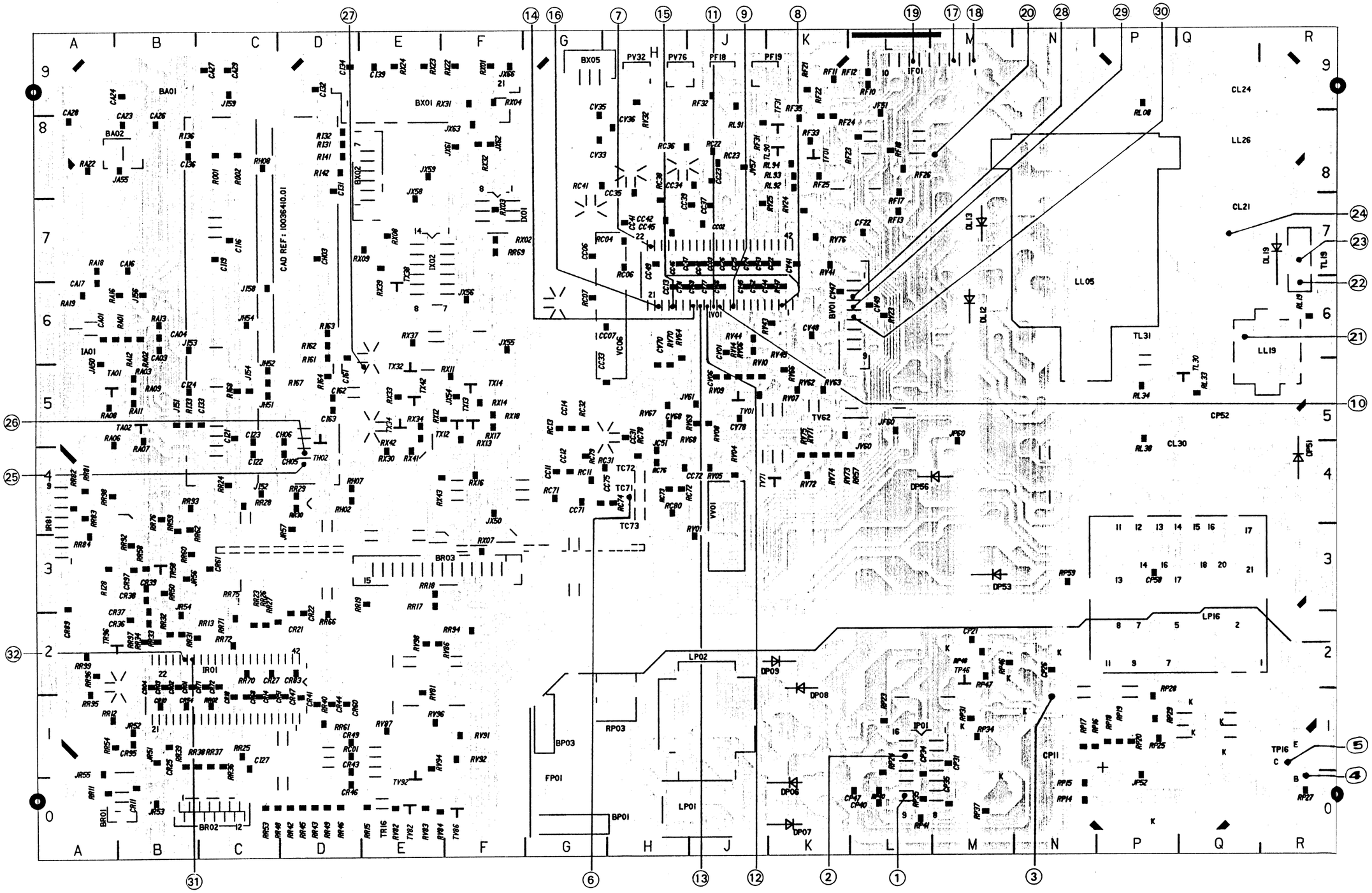
1. Tenere conto delle distanze dei componenti e dei percosi! p.e. i terminali in passaggio dei componenti sostituiti devono essere tagliati corti.
2. Componenti di sicurezza ⚠ devono essere sostituiti solamente con ricambi originali (vedere schema).

El chasis está aislado de la red. La separación se produce en la fuente de alimentación. Para garantizar la seguridad en cumplimiento de las normas VDE, después de una reparación, asegurarse de lo siguiente.

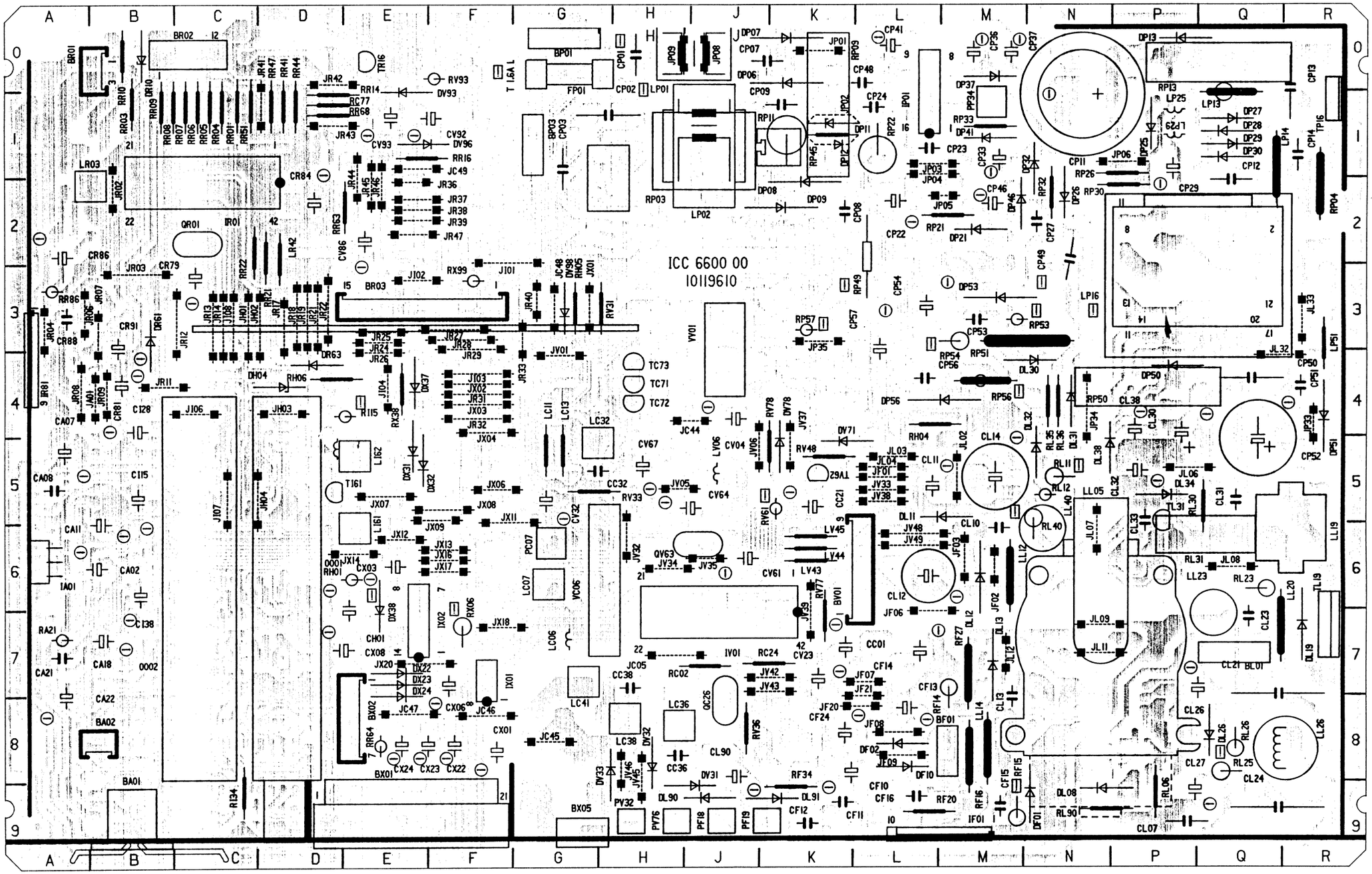
1. Mantener la distancia entre componentes. Por ejemplo, cortando todo lo posible los hilos y terminales que sobresalgan de las pistas del circuito impreso.
2. Los componentes marcados en el esquema con el simbolo ⚠ deben ser substituidos por repuestos originales (ver esquema).

Chassis-Grundplatte · Chassis base board · Plaque de base du chassis · Piastra base telaio · Chasis placa base

Lötseite · solder side · côté soudure · lato saldature · lado soldaduras



Chassis-Grundplatte · Chassis base board · Plaque de base du chassis · Piastra base telaio · Chasis placa base



Das Chassis ist netzgetrennt. Die Trennstelle liegt im Netzteil. Um die VDE-Sicherheit zu gewährleisten, ist nach einer Reparatur sicherzustellen:

1. Auf Luft- und Kriechstrecken achten! Z. B. durchstehende Drähte ausgewechselter Bauelemente kurz abschneiden.
2. Sicherheitsbauteile ⚠ nur gegen Original-Ersatzteile auswechseln (siehe Stromlaufplan).

The chassis is isolated from line voltage. The isolation point is in the line section. In order to insure safety as per VDE requirements, the following must be checked after any repairs:

1. Check for air gap and leakage paths! For example, protruding ends of wires passing through the board must be cut off short.
2. Components with an essential safety function ⚠ are to be replaced only with original-equipment parts (see circuit diagram).

Le chassis est séparé du réseau. La séparation est située dans la partie alimentation. Pour assurer la sécurité au regard des normes VDE, après une réparation, il convient de veiller à

1. Prévenir des formations de circuits aériens ou rampants. Par ex. couper court les fils qui dépassent ou les éléments de construction échangés.
2. N'échanger les éléments de sécurité ⚠ que contre des pièces de rechange d'origine (cf. plan de passage du courant).

Il telaio é separato rete. Il punto di separazione risieda tra sezione rete. Per garantire la sicurezza VDE a riparazione effettuata deve essere assicurato che:

1. Tenere conto delle distanze dei componenti e dei percosi! p.e. i terminali in passaggio dei componenti sostituiti devono essere tagliati corti.
2. Componenti di sicurezza ⚠ devono essere sostituiti solamente con ricambi originali (vedere schema).

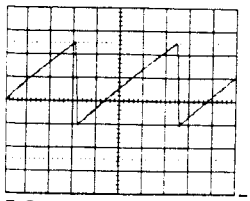
El chasis está aislado de la red. La separación se produce en la fuente de alimentación. Para garantizar la seguridad en cumplimiento de las normas VDE, después de una reparación, asegurarse de lo siguiente.

1. Mantener la distancia entre componentes. Por ejemplo, cortando todo lo posible los hilos y terminales que sobresalgan de las pistas del circuito impreso.
2. Los componentes marcados en el esquema con el símbolo ⚠ deben ser substituidos por repuestos originales (ver esquema).

Farbbalkentestbild 75% weiß, Color bar test pattern 75% white

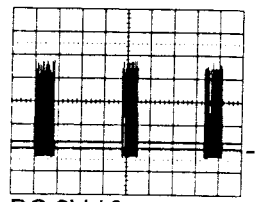
B = Burstbetrieb, Stand by mode,
V = Vollbetrieb, On mode

1



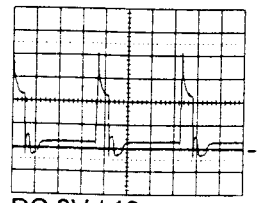
DC 0.5V / 10µs

2 - B



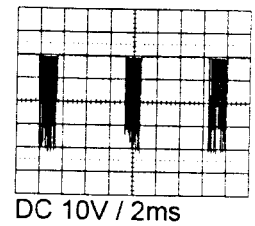
DC 2V / 2ms

2 - V



DC 2V / 10µs

3 - B



DC 10V / 2ms

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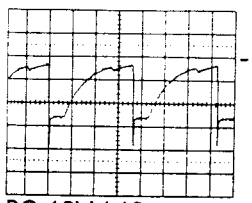

DC 10V / 10µs

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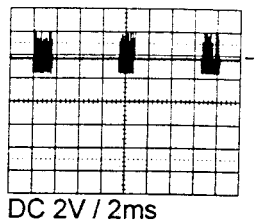
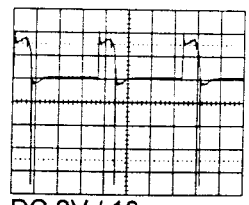


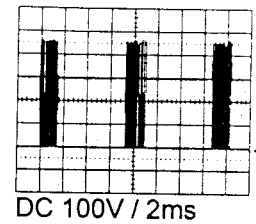
DC 2V / 2ms

4 - V



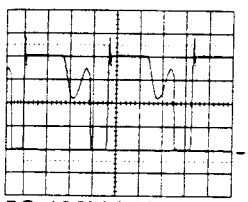
DC 2V / 10µs

5 - B



DC 100V / 2ms

5 - V



DC 100V / 10µs

Achtung!
Auf der Primärseite des Netzteils alle Spannungen und Oszillogramme gegen Primär-Netzteilmasse messen.

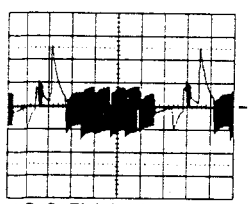
Important!
On the primary side of the line section, measure all voltages and oscillogrammes against primary line section ground

Attention!
Sur le côté primaire du block Secteur, mesurer toutes les tensions et Oscillogrammes contre la masse primaire du block secteur

Attenzione!
Nella zone primmaria tutte le tensioni e gli oscillogrammi sono misurati verso massa alimentatore primario

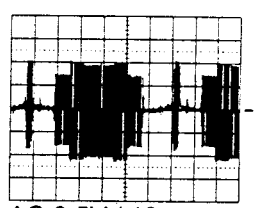
Atención!
En el lado primario de la fuente de alimentación (lado de la red) todas las tensiones y oscillogramas son medidos contra la masa de este mismo lado

6



AC 0.5V / 10µs

7



AC 0.5V / 10µs

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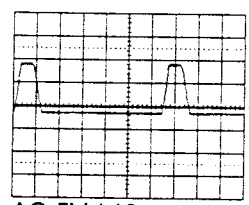
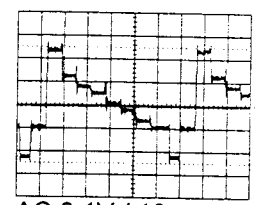


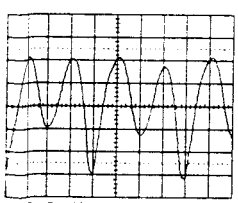
AC 5V / 10µs

9



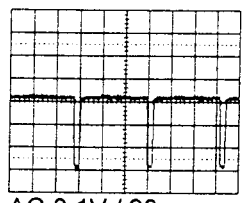
AC 0.1V / 10µs

10



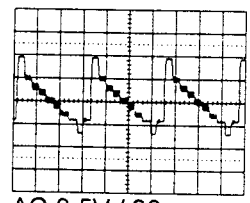
AC 0.1V / 0.5µs

11 mit V-Text



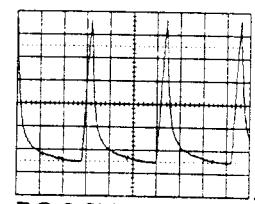
AC 0.1V / 20µs

11 o. V-Text (gebrückt)



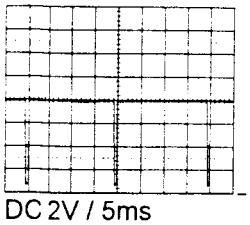
AC 0.5V / 20µs

12



DC 0.2V / 20µs

13



DC 2V / 5ms

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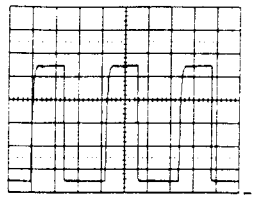

DC 2V / 20μs

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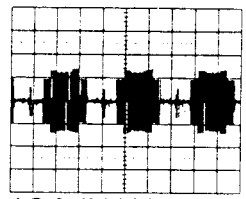
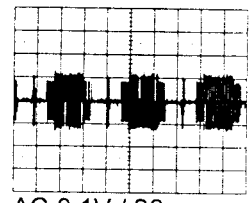


AC 0.1V / 20μs

16



AC 0.1V / 20μs

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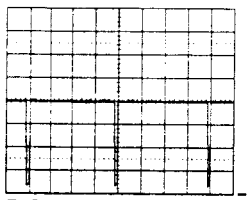

DC 2V / 5ms

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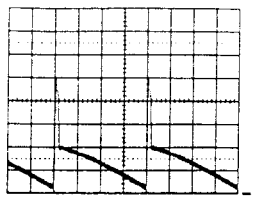
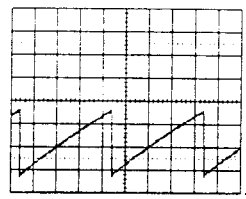


DC 10V / 5ms

19



DC 2V / 5ms

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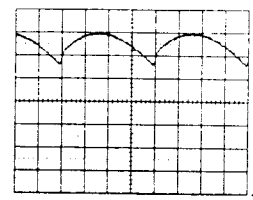

DC 2V / 5ms

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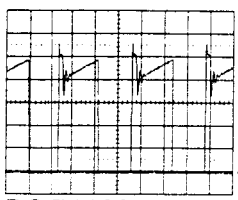

DC 5V / 20μs

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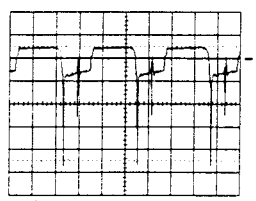

DC 5V / 20μs

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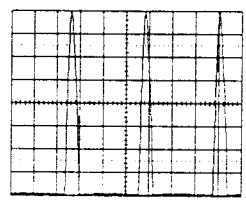
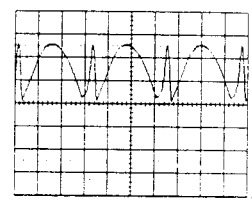


Vss = 1000V / 20μs

24



DC 20V / 20μs

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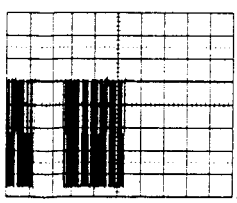
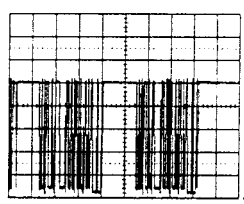


DC 1V / 5ms

26



DC 1V / 5ms

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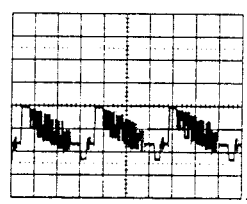

DC 1V / 20μs

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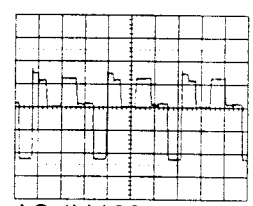

AC 1V / 20μs

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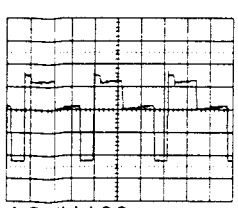

AC 1V / 20μs

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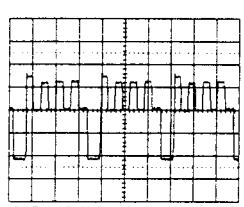

AC 1V / 20μs

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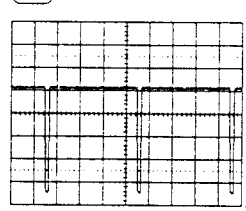
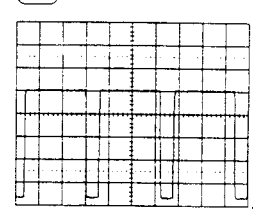


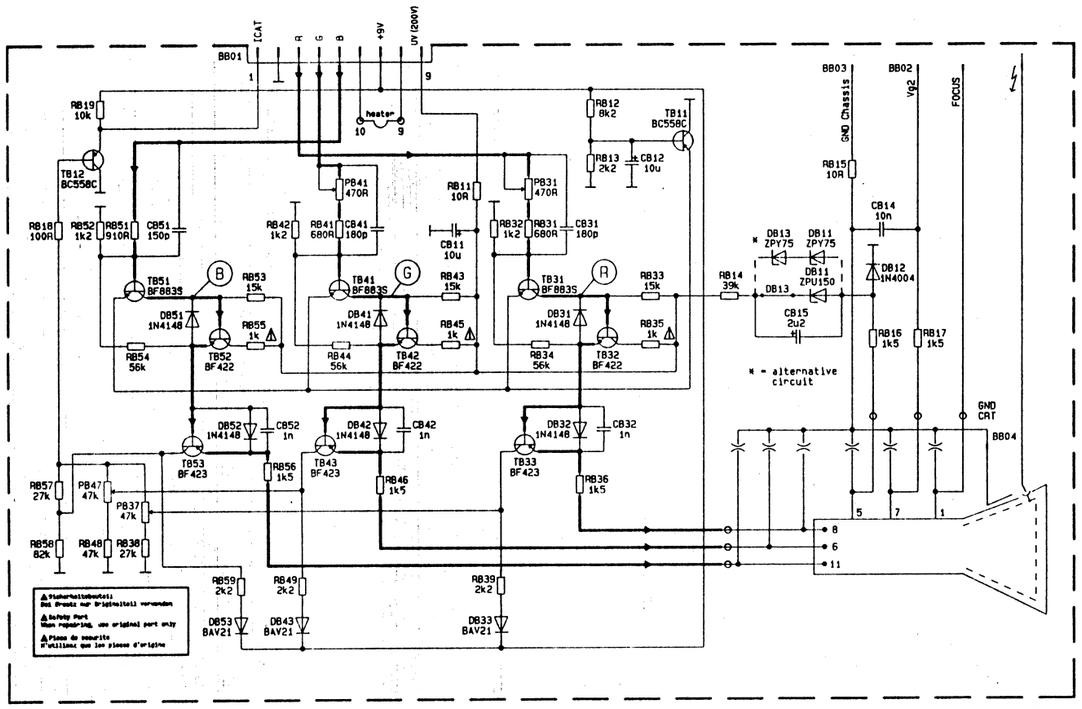
DC 1V / 5ms

32



DC 1V / 20μs

Bildröhrenplatte 6625 · Picture tube board · Platine tube image · Basetta Ciescopio · Placa de tubo de imagen



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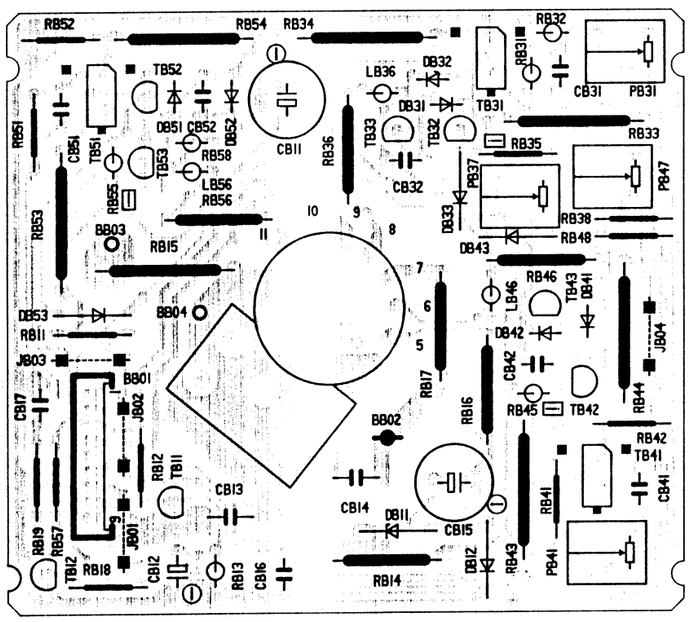

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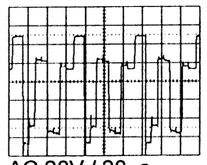

AC 20V / 20µs

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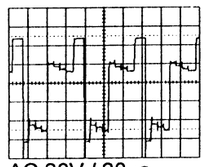

AC 20V / 20µs

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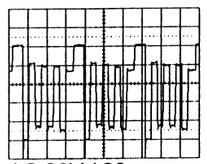
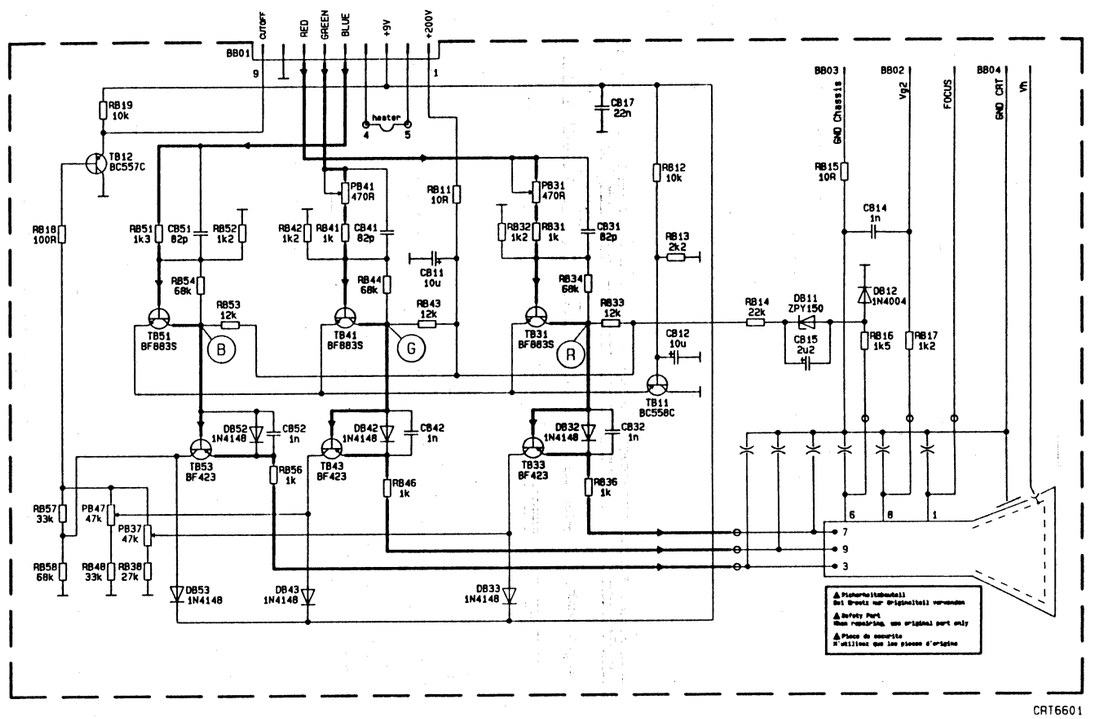
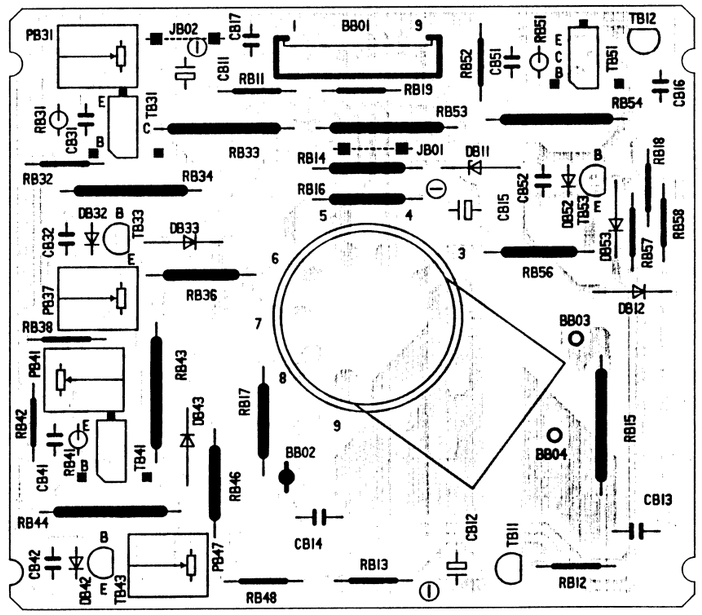


AC 20V / 20µs

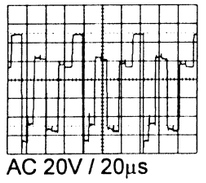
Bildröhrenplatte 6601 · Picture tube board · Platine tube image · Basetta Ciescopio · Placa de tubo de imagen



CRT6601

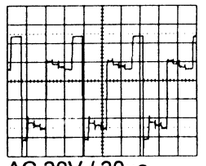


R (TB31)



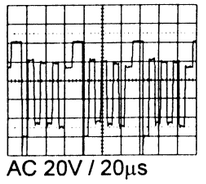
AC 20V / 20µs

G (TB41)



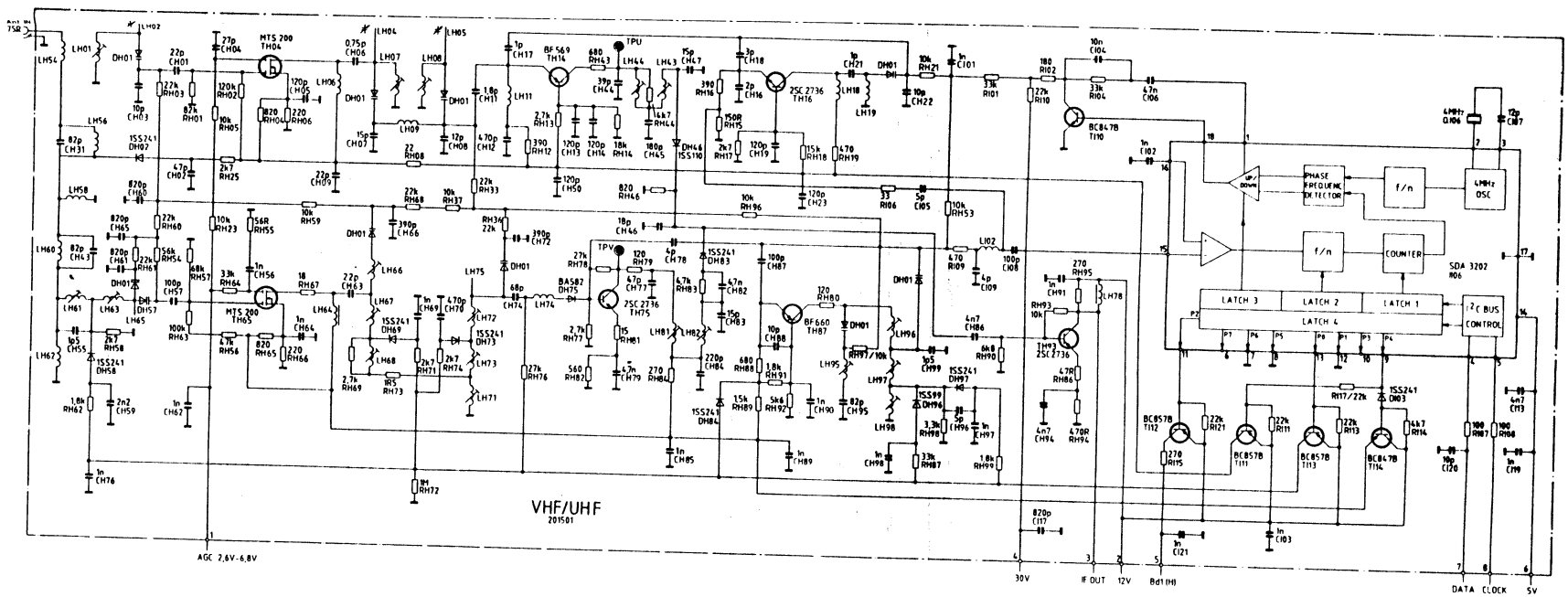
AC 20V / 20µs

B (TB51)

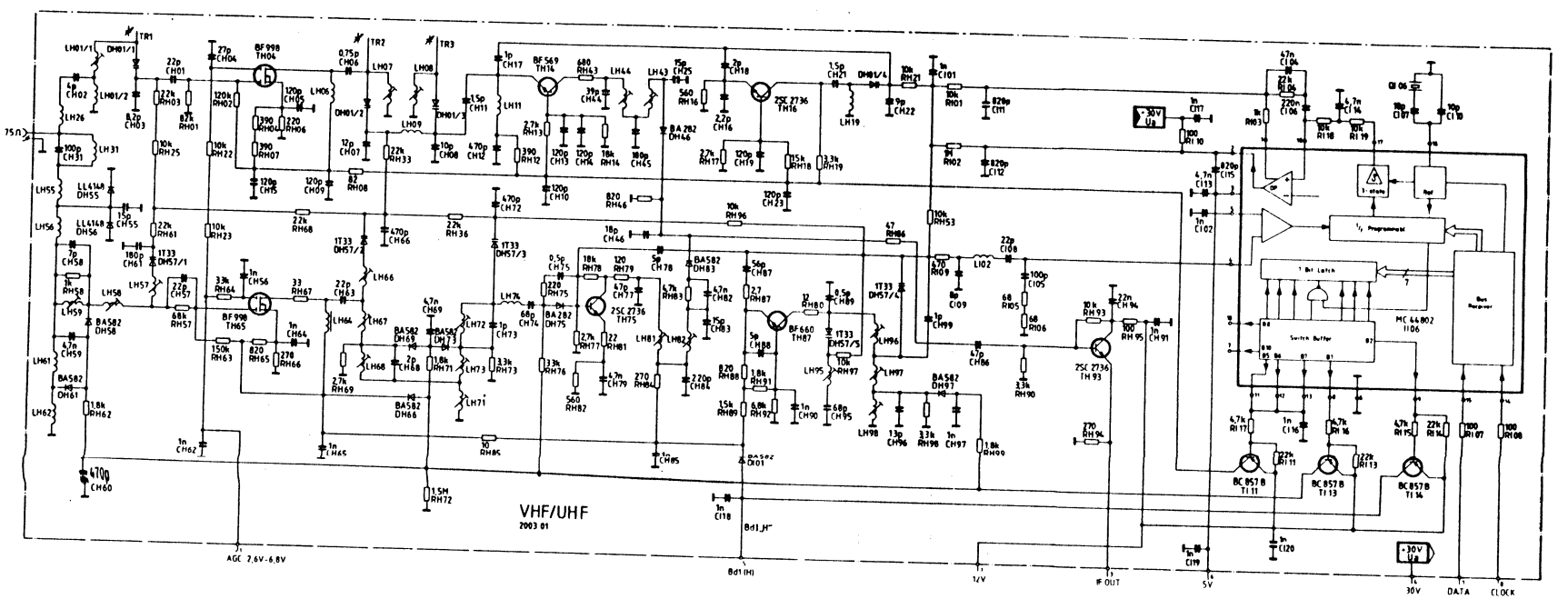


AC 20V / 20µs

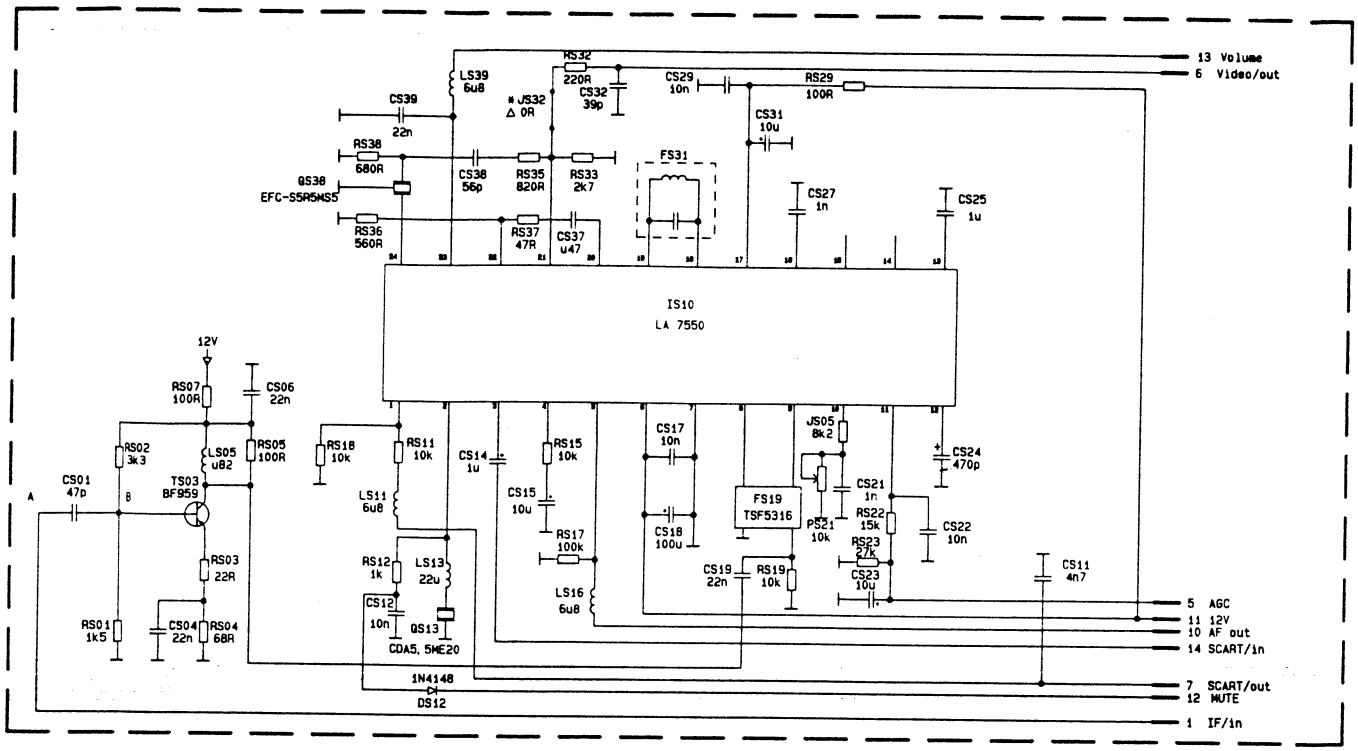
Tuner 2015



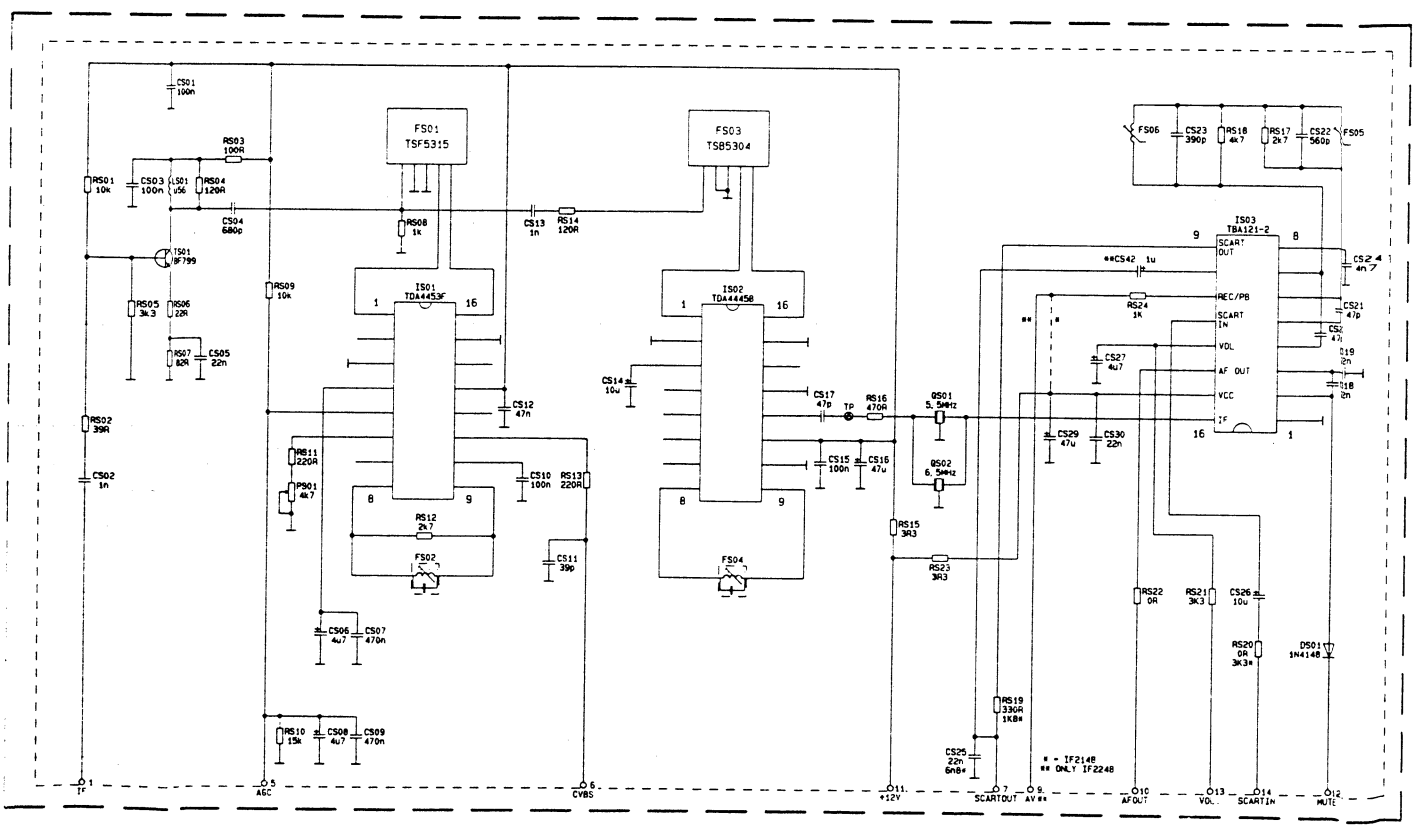
Tuner 2003

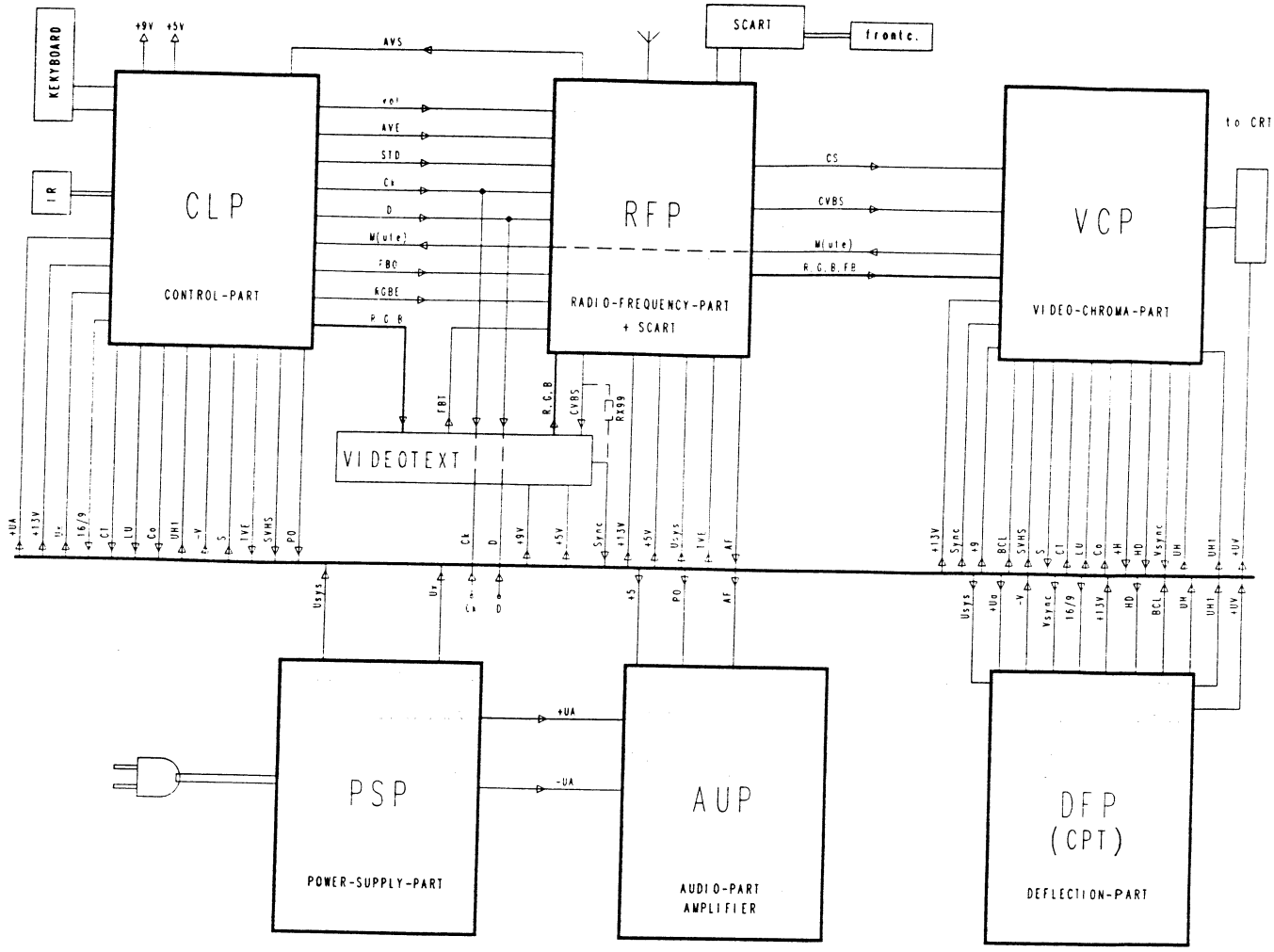


ZF-Verstärker 2109 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador FI

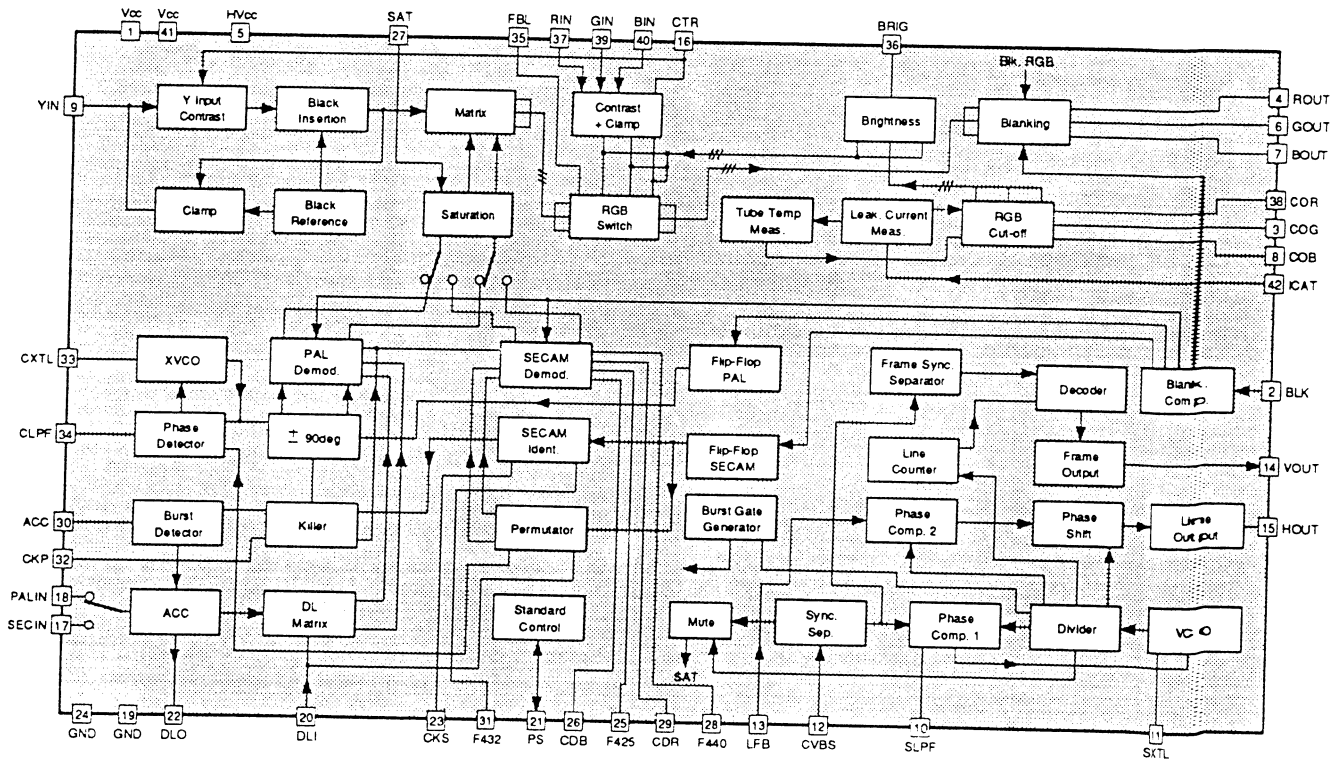


ZF-Verstärker 2148 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador FI




KEYBOARD
IR
CLP
CONTROL-PART
+9V
+5V
AVS
AVE
STD
Ck
D
M(ute)
FBC
RGBE
P C B
SCART
fronte.
RFP
RADIO-FREQUENCY-PART
+ SCART
CS
CVBS
M(ute)
R G B FB
to CRT
VCP
VIDEO-CHROMA-PART
VIDEOTEXT
FBT
R.G.B
CVBS
RX99
PSP
POWER-SUPPLY-PART
+UA
-UA
AUP
AUDIO-PART
AMPLIFIER
DFP
(CPT)
DEFLECTION-PART

STV 2110


Vcc 1
Vcc 41
HVcc 5
SAT 27
FBL 35
RIN 37
GIN 39
BIN 40
CTR 16
BRIG 36
Blk. RGB
YIN 9
Y Input Contrast
Black Insertion
Matrix
Contrast + Clamp
Brightness
Blanking
Clamp
Black Reference
Saturation
RGB Switch
Tube Temp Meas.
Leak. Current Meas.
RGB Cut-off
4 ROUT
6 GOUT
7 BOUT
38 COR
3 COG
8 COB
42 ICAT
CXTL 33
XVCO
PAL Demod.
SECAM Demod.
Flip-Flop PAL
Frame Sync. Separator
Decoder
Blank. Comp.
2 BLK
CLPF 34
Phase Detector
± 90deg
SECAM Ident.
Flip-Flop SECAM
Line Counter
Frame Output
14 VOUT
ACC 30
Burst Detector
Killer
Permutator
Burst Gate Generator
Phase Comp. 2
Phase Shift
Line Output
15 HOUT
CKP 32
PALIN 18
SECIN 17
ACC
DL Matrix
Standard Control
Mute
Sync. Sep.
Phase Comp. 1
Divider
VCO
SAT
24 GND
19 GND
22 DLO
20 DLI
23 CKS
31 F432
21 PS
26 CDB
25 F425
29 CDR
28 F440
13 LFB
12 CVBS
10 SLPF
11 SKTL

Ersatzteilliste • Spare parts list • Liste de pièces de rechange • Lista parti di ricambio • Lista de piezas de recambio

Wichtig: Bei Ersatzteilbestellung bitte unbedingt die entsprechende Bestellnummer angeben!
N.B.: When demanding Spare Parts it is absolutly necessary to quote the corresponding part number!
Importand: Lors d'une commande de pièces de rechange, prière d'indiquer en tout cas le numéro de la pièce!
Importante: Ordinare sempre con il numero corrispondenti di codice!
Importante: Pedir siempre lis recambios con el numero correspondiente de codigo!

Pos.	Bestell-Nr	Bezeichnung	Item
		AUSTAUSCHTEILE	**EXCHANGE PARTS**
	349 357 098	Tuner TP2015	tuner
	349 354 416	ZF-Verstärker IF2248	IF amplifier
		ELEKTRISCHE ERSATZTEILE	**ELECTRICAL PARTS**
CL 10	309 440 678	330p 20% 1KV Kerko	ceramic capacitor
CL 13	309 440 678	330p 20% 1KV Kerko	ceramic capacitor
CL 21	309 432 620	6n6 3,5% 1,6KV Kondensator	capacitor
CL 24	309 434 626	360n 5% 250V MKPS-Ko	capacitor
CL 51	246 073	2u7 10% 100V MKP-Ko	capacitor
CP 1	309 440 684	4n7 275V Kerko	ceramic capacitor
CP 2	309 440 680	100n 275V Kerko	ceramic capacitor
CP 7	309 441 643	4n7 1KV Kerko	ceramic capacitor
CP 8	309 431 486	1n5 1KV Kerko	ceramic capacitor
CP 9	309 441 643	4n7 1KV Kerko	ceramic capacitor
CP 11	309 418 406	100u 385V Elko	el. cap.
CP 13	339 590 226	1n5 1KV Kondensator	capcitor
CP 14	309 440 685	100p 2KV Kerko	ceramic capacitor
CP 49	309 440 686	1n 20% 40UV Kerko	ceramic capcitor
CP 50	339 590 226	1n5 1KV Kondensator	capacitor
CP 52	309 418 407	150u 160V Elko	el. cap.
DF 10	309 325 069	BA157 Diode	diode
DH 4	309 325 172	ZPD33 2% Z-Diode	z-diode
DL 8	309 325 927	1N4148 Diode	diode
DL 11	309 325 069	BA157 Diode	diode
DL 12	309 325 167	BY397 Diode	diode
DL 13	309 325 167	BY397 Diode	diode
DL 26	309 325 069	BA157 Diode	diode
DL 30	309 325 951	1N4001 Diode	diode
DL 31	309 327 158	ZPY3V9 Z-Diode	z-diode
DL 32	309 325 951	1N4001 Diode	diode
DL 34	309 325 927	1N4148 Diode	diode
DL 38	309 325 069	BA157 Diode	diode
DL 90	309 325 927	1N4148 Diode	diode
DL 91	309 325 927	1N4148 Diode	diode
DP 6	309 327 074	1N4007 Diode	diode
DP 7	309 327 074	1N4007 Diode	diode
DP 8	309 327 074	1N4007 Diode	diode
DP 9	309 327 074	1N4007 Diode	diode
DP 13	309 325 069	BA159 Diode	diode
DP 21	309 325 069	BA157 Diode	diode
DP 26	309 325 069	BA157 Diode	diode
DP 27	309 325 951	1N4001 Diode	diode
DP 28	309 325 951	1N4001 Diode	diode
DP 29	309 325 951	1N4001 Diode	diode
DP 30	309 325 951	1N4001 Diode	diode
DP 32	309 325 927	1N4148 Diode	diode
DP 37	309 325 927	1N4148 Diode	diode
DP 50	309 325 069	BA159 Diode	diode
DP 51	309 325 164	BY399 Diode	diode
DP 53	309 325 069	BA157 Diode	diode
DP 56	309 325 069	BA157 Diode	diode
DR 10	309 327 112	ZPD10 2% Z-Diode	z-diode
DR 61	309 325 927	1N4148 Diode	diode
DR 63	309 325 927	1N4148 Diode	diode
DV 15	309 325 927	1N4148 Diode	diode
DV 25	309 325 927	1N4148 Diode	diode
DV 31	309 325 927	1N4148 Diode	diode
DV 32	309 325 927	1N4148 Diode	diode
DV 33	309 325 927	1N4148 Diode	diode
DV 35	309 325 927	1N4148 Diode	diode
DV 45	309 325 927	1N4148 Diode	diode
DV 71	309 325 927	1N4148 Diode	diode
DV 78	309 325 927	1N4148 Diode	diode
DV 93	309 325 927	1N4148 Diode	diode
DV 96	309 325 927	1N4148 Diode	diode
DV 98	309 325 927	1N4148 Diode	diode
DX 22	309 325 927	1N4148 Diode	diode
DX 23	309 325 927	1N4148 Diode	diode
DX 24	309 325 927	1N4148 Diode	diode
DX 31	309 325 927	1N4148 Diode	diode
DX 32	309 325 927	1N4148 Diode	diode
DX 37	309 325 927	1N4148 Diode	diode
DX 38	309 325 927	1N4148 Diode	diode
FP 1	309 627 508	T1,6A 250V Sicherung	fuse
IA 1	309 368 691	TDA2006V IC-Power	IC
IF 1	309 368 733	TDA1771 IC-Power	IC
IP 1	309 368 549	TEA2261 IC-L	IC
IR 1	309 368 732	ST6397B1/ZN IC-Mikroproz.	IC microprocessor
IR 81	309 368 734	TDA8139 IC-R	IC
IV 1	309 368 735	STV2110 IC-L	IC
IX 1	309 368 416	TEA2014A IC-L	IC
IX 2	339 575 245	HEF4066BP IC-MOS	IC
LC 6	309 249 413	6u8 5% Drossel	choke
LC 7	309 249 351	8uH Spule	coil
LC 11	309 249 414	56uH 5% Drossel	choke

Pos	Bestell-Nr	Bezeichnung	Item
LC 13	339 349 567	15uH 10% HF-Drossel	RF choke
LC 32	309 249 350	6u4 Spule	coil
LC 36	309 249 412	6u5 Spule	coil
LC 38	309 249 412	6u5 Spule	coil
LC 41	309 249 351	8uH Spule	coil
LI 61	309 249 404	8uH Filter-Spule	filter coil
LI 62	309 249 344	27u5 Filter-Spule	filter coil
LL 5	309 311 010	Hochsp.-Trafo DSTM88	high voltage transformer
LL 12	309 249 407	Ferrit-Rohrkern m. Draht	ferrite tube core with wire
LL 14	309 249 407	Ferrit-Rohrkern m. Draht	ferrite tube core with wire
LL 19	309 309 992	Treiber-Trafo	driver transformer
LL 23	309 249 384	75uH Spule	coil
LL 26	309 249 415	85uH Linearitätsspule	linearity coil
LL 40	309 249 416	35uH Spule	coil
LP 1	309 259 021	Netzdrossel	mains choke
LP 2	309 259 022	Netzdrossel	mains choke
LP 13	309 249 407	Ferrit-Rohrkern m. Draht	ferrite tube core with wire
LP 14	309 249 407	Ferrit-Rohrkern m. Draht	ferrite tube core with wire
LP 16	309 310 182	Netztrafo SMT4	mains transformer
LP 29	309 250 049	6u8 Spule	coil
LP 51	309 614 916	Ferrit-Rohrkern m. Draht	ferrite tube core with wire
LR 3	309 249 375	35uH Spule	coil
LR 42	339 349 567	15uH HF-Drossel	RF choke
LV 6	309 249 405	10uH Drossel	choke
LV 43	309 249 417	3u9 Spule	coil
LV 44	309 249 417	3u9 Spule	coil
LV 45	309 249 417	3u9 Spule	coil
PC 7	309 509 199	1K Trimmwid. liegend	trimmer resistor
PF 18	309 509 200	1K Trimmwid. stehend	trimmer resistor
PF 19	309 509 201	10K Trimmwid. stehend	trimmer resistor
PP 34	309 509 204	470R Trimmwid. liegend	trimmer resistor
PV 32	309 509 202	22K Trimmwid. stehend	trimmer resistor
PV 76	309 509 203	2K2 Trimmwid. stehend	trimmer resistor
QC 26	309 335 730	4MHz433619 Filter-Quarz	filter crystal
QR 1	309 335 731	8MHz Filter-Quarz	filter crystal
QV 63	309 160 833	CSB503B Keramik-Filter	ceramic filter
RA 21	309 580 967	1R8 5% 0,3W Sichwid.	fuse resistor
RF 15	309 580 999	2R2 5% 0,35W Sichwid.	fuse resistor
RH 1	309 580 955	22R 5% 0,3W Sichwid.	fuse resistor
RI 15	339 537 955	5R6 5% 0,3W Sichwid.	fuse resistor
RL 11	309 580 001	15R 10% 0,35W Sichwid.	fuse resistor
RL 12	309 580 974	0R1 10% 0,4W Sichwid.	fuse resistor
RL 23	309 556 281	47R 5% 3W Drahwid.	wire resistor
RL 26	309 580 002	1K 5% 0,35W Sichwid.	fuse resistor
RL 31	309 556 316	150R 5% 3W Drahwid.	wire resistor
RL 51	309 556 284	8R2 10% 10W Drahwid.	wire resistor
RP 3	309 560 952	25/6K 220V PTC-Wid.	resistor
RP 4	309 549 693	0R27 5% 2,5W Metox-Wid.	resistor
RP 11	309 549 694	27K 5% 4W Metox-Wid.	resistor
RP 13	309 556 317	470R 5% 5W Drahwid.	wire resistor
RP 22	309 530 702	10R 5% 2W Metox-Wid.	resistor
RP 49	309 530 716	10M 5% 0,7W Schiwid.	film resistor
RP 50	309 556 317	470R 5% 5W Drahwid.	wire resistor
RP 53	309 580 003	0R33 10% 0,4W Sichwid.	fuse resistor
RP 54	339 537 734	1R2 5% 0,3W Sichwid.	fuse resistor
RP 56	309 580 974	0R1 10% 0,4W Sichwid. Metall	fuse resistor
RR 86	309 580 990	8R2 5% 0,3W Sichwid.	fuse resistor
RV 61	339 537 955	5R6 5% 0,3W Sichwid.	fuse resistor
RX 6	309 580 004	39R 10% 0,35W Sichwid.	fuse resistor
TA 1	339 555 241	BC848B Transistor-Chip	transistor chip
TA 2	339 555 241	BC848B Transistor-Chip	transistor chip
TC 71	309 001 293	BC548B Transistor	transistor
TC 72	309 001 293	BC548B Transistor	transistor
TC 73	309 001 226	BC558B Transistor	transistor
TF 1	339 555 241	BC848B Transistor Chip	transistor chip
TF 31	339 555 241	BC848B Transistor Chip	transistor chip
TH 2	339 555 241	BC848B Transistor-Chip	transistor chip
TL 19	309 005 031	BUH314DTH Transistor	transistor
TL 30	339 555 241	BC848B Transistor Chip	transistor chip
TL 31	339 556 787	BC337-40 Transistor	transistor
TL 90	339 555 241	BC848B Transistor Chip	transistor chip
TP 16	309 005 032	BUT11AF Transistor	transistor
TR 16	309 001 293	BC548B Transistor	transistor
TR 58	339 555 241	BC848B Transistor-Chip	transistor chip
TR 96	339 555 241	BC848B Transistor-Chip	transistor chip
TV 1	339 555 241	BC848B Transistor Chip	transistor chip
TV 62	309 001 293	BC548B Transistor	transistor
TV 71	309 001 353	BC858B Transistor-Chip	transistor chip
TV 82	339 555 241	BC848B Transistor Chip	transistor chip
TV 86	309 001 353	BC858B Transistor-Chip	transistor chip
TV 92	309 001 353	BC858B Transistor-Chip	transistor chip
TX 12	339 555 241	BC848B Transistor-Chip	transistor chip
TX 13	339 555 241	BC848B Transistor-Chip	transistor chip
TX 14	339 555 241	BC848B Transistor-Chip	transistor chip
TX 32	309 001 353	BC858B Transistor-Chip	transistor chip
TX 34	339 555 241	BC848B Transistor-Chip	transistor chip
TX 38	339 555 241	BC848B Transistor-Chip	transistor chip
TX 42	339 555 241	BC848B Transistor-Chip	transistor chip
VC 6	309 699 509	DL711 Verzögerungsltg.	delay line
VV 1	309 378 197	ELB4L154 LC-Modu	LC module

Ersatzteilliste · Spare parts list · Liste de pièces de rechange · Lista parti di ricambio · Lista de piezas de recambio

Wichtig: Bei Ersatzteilbestellung bitte unbedingt die entsprechende Bestellnummer angeben!
N. B.: When demanding Spare Parts it is absolutly necessary to quote the corresponding part number!
Importand: Lors d'une commande de pièces de rechange, prière d'indiquer en tout cas le numéro de la pièce!
Importante: Ordinare sempre con il numero corrispondenti di codice!
Importante: Pedir siemple lis recambios con el numero correspondiente de codigo!

Pos.	Bestell-Nr	Bezeichnung	Item
		MECHANISCHE TEILE	**MECHANICAL PARTS**
	309 863 511	Chassis-Rahmen	chassis frame
	309 951 997	Schutzkappe f. CP49	protection cap
	309 900 547	Halter f. VT-Decoder	support for VT decoder
	309 689 966	42pol. IC-Fassung f. IR 1/IV 1	IC socket
	309 903 826	Montage Clip f. IA 1/TL 19	montage clip
	309 903 844	Montage Clip f. IR 81/IF 1	montage clip
	309 903 839	Montage Clip f. TP 16	montage clip
BA 2	309 650 089	Stiftleiste 2 pol. natur US	pin bar
BR 1	309 650 090	Stiftleiste 3 pol. natur US	pin bar
BR 3	309 650 091	Stiftleiste 15 pol. natur US	pin bar
BV 1	309 650 088	Stiftleiste 9 pol. natur US	pin bar
BX 1	309 651 034	Scart-Buchse	scart socket
BX 2	309 650 063	Stiftleiste 7 pol. natur US	pin bar
BX 5	309 650 092	Stiftleiste 4 pol. natur US liegend	pin bar
	349 353 984	**VT-Decoder DVT6601**	**teletext-decoder**
		ELEKTRISCHE ERSATZTEILE	**ELECTRICAL PARTS**
DP 1	309 327 120	ZPD9V1 Z-Diode	z-diode
DP 2	309 327 104	ZPD4V3 2% Z-Didoe	z-diode
DP 4	309 325 951	1N4001 Diode	diode
DP 5	309 325 951	1N4001 Diode	diode
IV 1	309 368 503	SDA5231-2 IC	IC
IV 2	339 576 617	SAA5243 P/E IC-MOS	IC
IV 3	309 368 481	TC5565/APL15 (PL15) IC-Memory	IC
LV 10	309 249 272	10uH Spule	coil
LV 11	309 249 272	10uH Spule	coil
LV 24	339 349 510	15uH Spule	coil
LV 27	309 249 361	6MHz Spule	coil
QV 24	309 335 708	13MHz875 Filter-Quarz	filter crystal
RP 6	309 540 646	100R 5% 2W Metox-Wid.	resistor
RV 11	309 580 991	4R7 10% 0,3W Sichwid.	fuser resistor
TP 1	339 556 224	BC548C Transistor	transistor
TP 4	339 556 224	BC548C Transistor	transistor
TP 6	339 556 224	BC548C Transistor	transistor
TP 2	309 001 292	BC558C Transistor	transistor
TP 3	309 001 246	BC368 Transistor	transistor
TS 33	309 001 293	BC548B Transistor	transistor
TS 34	309 001 293	BC548B Transistor	transistor
TS 36	309 001 293	BC548B Transistor	transistor
TS 39	309 001 293	BC548B Transistor	transistor
BT 1	309 651 033	15 pol. Buchsenleiste natur	sockets bar
	349 377 005	**Bildrohrplatte CRT6625**	**picture tube board**
		ELEKTRISCHE ERSATZTEILE	**ELECTRICAL PARTS**
CB 14	309 442 978	1n 2KV Kerko	ceramic capacitor
DB 11	309 327 111	ZPU150 Z-Diode	z-diode
DB 12	309 325 010	1N4004 Diode	diode
DB 31	309 325 927	1N4148 Diode	diode

Pos.	Bestell-Nr.	Bezeichnung	Item
DB 32	309 325 927	1N4148 Diode	diode
DB 33	309 325 927	1N4148 Diode	diode
DB 41	309 325 927	1N4148 Diode	diode
DB 42	309 325 927	1N4148 Diode	diode
DB 43	309 325 927	1N4148 Diode	diode
DB 51	309 325 927	1N4148 Diode	diode
DB 52	309 325 927	1N4148 Diode	diode
DB 53	309 325 927	1N4148 Diode	diode
PB 31	309 509 198	470R Trimmwid. liegend	trimmer resistor
PB 41	309 509 198	470R Trimmwid. liegend	trimmer resistor
PB 37	309 509 148	47K Trimmwid. liegend	trimmer resistor
PB 47	309 509 148	47K Trimmwid. liegend	trimmer resistor
RB 35	309 580 992	1K 10% 0,3W Sichwid.	fuse resistor
RB 45	309 580 964	1K 5% 0,3W Sichwid.	fuser resistor
RB 55	309 580 964	1K 5% 0,3W Sichwid.	fuser resistor
TB 11	309 001 292	BC558C Transistor	transistor
TB 12	309 001 292	BC558C Transistor	transistor
TB 31	309 001 335	BF883S Transistor	transistor
TB 41	309 001 335	BF883S Transistor	transistor
TB 51	309 001 335	BF883S Transistor	transistor
TB 32	309 001 311	BF422 Transistor	transistor
TB 42	309 001 311	BF422 Transistor	transistor
TB 52	309 001 311	BF422 Transistor	transistor
TB 33	309 001 310	BF423 Transistor	transistor
TB 43	309 001 310	BF423 Transistor	transistor
TB 53	309 001 310	BF423 Transistor	transistor
	309 650 088	Stiftleiste 9 pol. natur	pins bar
	309 681 514	Bildrohrfassung	CRT socket
	100 287 00	**Bildrohrplatte CRT6601**	**picture tube board**
		ELEKTRISCHE ERSATZTEILE	**ELECTRICAL PARTS**
CB 14	309 442 978	1n 2KV Kerko	ceramic capacitor
DB 11	309 327 111	ZPU150 Z-Diode	z-diode
DB 12	309 325 010	1N4004 Diode	diode
DB 32	309 325 927	1N4148 Diode	diode
DB 33	309 325 927	1N4148 Diode	diode
DB 42	309 325 927	1N4148 Diode	diode
DB 43	309 325 927	1N4148 Diode	diode
DB 52	309 325 927	1N4148 Diode	diode
DB 53	309 325 927	1N4148 Diode	diode
PB 31	309 509 198	470R Trimmwid. liegend	trimmer resistor
PB 41	309 509 198	470R Trimmwid. liegend	trimmer resistor
PB 37	309 509 148	47K Trimmwid. liegend	trimmer resistor
PB 47	309 509 148	47K Trimmwid. liegend	trimmer resistor
RB 51	309 549 677	1K3 1% 0,4W Metox-Wid.	resistor
TB 11	309 001 292	BC558C Transistor	transistor
TB 12	309 001 292	BC558C Transistor	transistor
TB 31	309 001 335	BF883S Transistor	transistor
TB 41	309 001 335	BF883S Transistor	transistor
TB 51	309 001 335	BF883S Transistor	transistor
TB 33	309 001 310	BF423 Transistor	transistor
TB 43	309 001 310	BF423 Transistor	transistor
TB 53	309 001 310	BF423 Transistor	transistor
	309 650 088	Stiftleiste 9 pol. natur US	pins bar
	404 043 00	Bildrohrfassung	CRT socket